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Volume 156 No. 2 July 11, 1949

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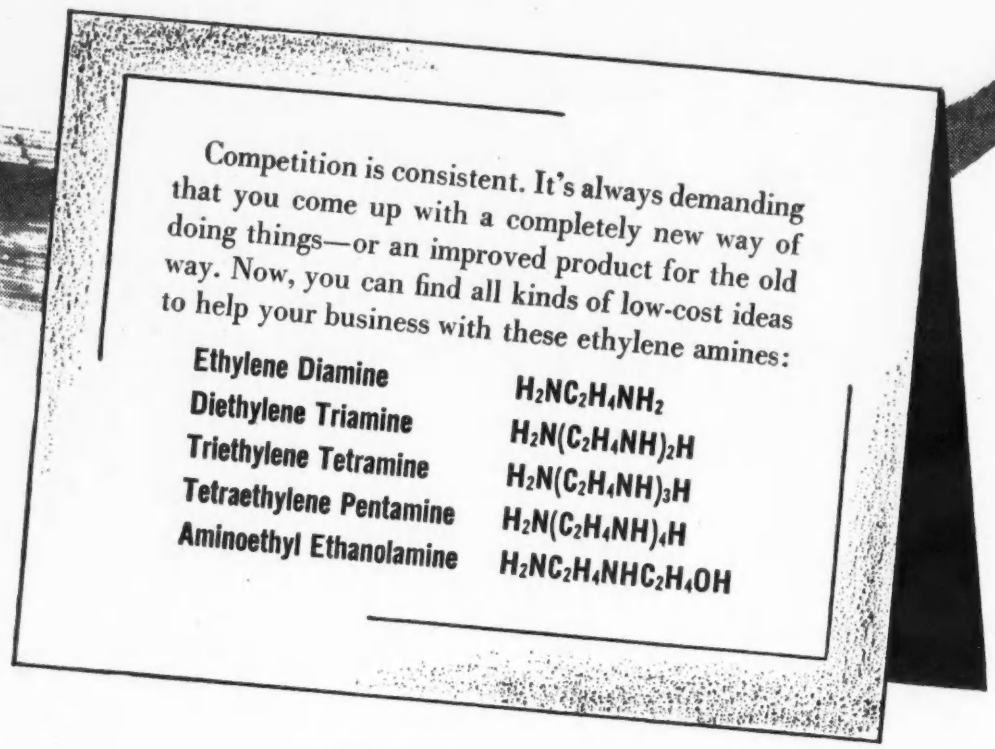

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Potash Salts Output Hits New High in '48

New records were made in 1948 in the potash industry of the United States, both production and sales of marketable potassium salts reaching new highs, according to reports of producers to the Bureau of Mines.

Production in 1948 was 2,138,493 short tons of potassium salts, containing 1,139,881 tons K_2O. This was an increase of 232,717 tons of potassium salts over 1947 and 110,006 tons of K_2O, a greater increase than 1947 showed over 1946. The production of marketable potassium salts in this country has increased each year since 1934, the bureau added.

Sales, which totaled 2,148,807 short tons, were 195,500 tons greater in 1948 than in 1947, and contained 1,143,339 tons K_2O. The value of sales increased to nearly $36,000,000. The average value per ton of potassium salts sold was again less than in the immediately preceding year, according to reports from producers, declining from $17.77 in 1947 to $16.75 in 1948.

Stocks of potassium salts in producers' hands at the end of 1948 were lower than on December 31, 1947. Imports of potash fertilizer materials decreased very slightly in 1948 and exports increased to a slight extent. Both imports and exports of potash materials for chemical uses increased in 1948.

Domestic consumption of potash made a new record, apparent consumption of

—Continued on page 45

ODT Officially Terminated

An executive order formally terminating the affairs of the Office of Defense Transportation and the office of director, was issued by President Truman on July 6. The order was made effective as of July 1. The Interstate Commerce Commission was designated by the President as the agency to complete the liquidation of the affairs of the ODT. The ODT was established under executive order of December 18, 1941.

Narcotics Inventories Reporting Rule Eased

Secretary of the Treasury John Snyder has signed an order relieving manufacturers and wholesale dealers of the necessity of reporting their inventories of narcotic drugs to the Bureau of Narcotics twice a year, as in the past.

In the future, only the report due on December 31 of each year need be filed, as the June 30 inventory report is being discontinued. The change in the rule applies only to manufacturers and wholesale dealers. It does not affect the required registration under form 713 twice yearly of doctors, laboratories and retailers of narcotics.

Nonferrous Scrap Duties Suspension Bill Approved

The house ways and means committee approved a bill (H. R. 5268) on July 6 to continue the suspension of import duties on certain ferrous and nonferrous scrap metals for another year until July 1, 1950. The bill now goes to the house floor for passage.

As a result of failure of Congressional action sooner, the duties applying to scrap metal imports, which had been in suspension throughout most of the period of war, went back into effect on June 30. The bill reported by the committee, would again place them in suspension with the exception of aluminum scrap.

Among the nonferrous metals and the duties which are to be suspended are:—Lead scrap 1 1/16 cents a pound; zinc scrap 3/4 cents a pound, and metallic magnesium 20 cents a pound. No action was taken by the committee on another bill which would have continued duty free imports of lead metal.

Price Trend Reflects Summer Lull

The customary summer lethargy was prominent in the markets for chemicals, oils and drugs last week. Buying was curtailed and many production operations were either cut or completely halted, due to excessive inventories and to plant vacation schedules. Price changes were limited, with reductions in various animal fats being of sufficient strength to offset a slight gain in essential oils; the overall average was depressed 0.1 point, putting it 18.7 points below the comparable 1948 level.

The animal fats have been unsettled and topheavy of late, and declines in tallow and grease were reflected in prices for grease oils, neatsfoot oil, tallow oil and cod oil. Copra and coconut oil also were quoted at lower prices, but linseed, soybean, tung and peanut oils were advanced.

The reason for the strength in the market for essential oils was twofold: increased demand for some and higher prices at primary markets for others. Aromatic chemicals enjoyed a demand about equal to that of recent weeks. Prices for most botanical drugs showed a steadier quality than for some time past—a reduction in ginger root being the sole change. Call for either medicinal or flavoring botanicals was light and only for immediate requirements.

Increased demand lifted the quotation on copper metal, the first of the non-ferrous metals to start upward, but there was no rise in prices for copper-based chemicals. Salt cake suppliers could not stand the weight of increasing supplies and decreasing demand, and prices were lowered. Good summer buying of chlorine crowded production a bit, and there was more interest reported for various soap-making chemicals and chlorates. Otherwise, the market for heavy chemicals was quiet.

With the exception of a slight reduction in castor oil, price movements in the market for drugs and fine chemicals were confined to small volume items. Para-aminosalicylic acid was reduced and the vitamin E price was drastically cut, with lower prices being quoted on both alphatocopherol and alphatocopherol acetate. Business is expected to be off for the next two months at least, with an upturn in demand seen in early fall.

Among protective coating materials there were few changes, these being limited to increases in some dammar gums and a rise in chemically-isolated soybean protein. Although no price changes were made, both lead and zinc gained strength, and this was reflected in lead pigments and zinc oxides. Settlement of the Canadian asbestos strike was expected to relieve shortly the critical supply situation in the United States.

The market for coaltar chemicals was largely unchanged. Crude naphthalene and tar acid oil were reduced by one producer to meet competition. Business in textile and leather chemicals was at a low ebb, with demand restricted to small lots for immediate needs.

Economy in plant operations allowed one producer to make a sharp reduction in the price of Canadian ammonium nitrate. Movement of most agricultural chemicals is now primarily against contracts, and no new business of any volume is looked for until the Fall.

Despite a further drop in steel operations, producers of petroleum toluol and xylol indicated that no influx of new business had yet developed. The next four to six weeks is expected to be the critical period in this matter. Demand for aliphatics and aliphatic-aromatic blends remained fairly good.

OPD Price Index

THE OIL, PAINT AND DRUG REPORTER'S relative record of prices for chemicals and related materials is currently as follows:—

July 8, 1949	July 1, 1949	July 9, 1948
127.8	127.9	146.5

The base of the OPD Price Index is the average of prices in 1926 and 1936, those years representing extremes of price undulations in the interwar period.

OPD Index Monthly Averages

	1949	1948	1947	1946	1941
January	142.0	150.4	150.9	135.3	107.3
February	140.4	147.2	151.9	135.4	110.3
March	137.6	146.2	154.9	135.2	111.9
April	133.6	146.2	152.3	134.9	115.5
May	131.2	146.7	146.1	135.1	118.2
June	128.7	147.3	143.9	135.4	121.9

Pricing Practices Bill Approved In House and Returned to Senate

The O'Mahoney bill (S. 1008) to permit sellers to quote delivered prices and absorb freight costs, when acting independently of other sellers and in good faith to meet competition, was passed by the house by a voice vote on July 7 after two days of bitter wrangling over the effect the law might have on enforcement of the anti-trust laws.

The bill now goes back to the senate, where it originated as a substitute for the so-called "moratorium" bill, for concurrence in a house amendment designed to tighten its provisions in relation to violations of the Robinson-Patman act. The amendment makes it illegal to offer delivered prices or absorb freight, even in good faith, if the action would violate the Robinson-Patman act.

It is probable that the senate may accept the house amendment and send the measure directly to the White House, where it is expected to be signed. Some controversy existed over whether the President favored the bill, but it appeared to be settled near the end of the house debate, when majority floor leader McCormack of Massachusetts stated that he had been advised by the Bureau of the Budget that the bill conforms to the President's program.

Several amendments were offered to the bill during house consideration, but all were beaten back with the one exception that bars good faith freight absorption as a defense against violation of the Robinson-Patman act. This was adopted by a vote of 117 to 81. Efforts to recommit the bill for further hearings and study were rejected, 140 to 67.

Leader in the fight against the bill was Representative Wright Patman of Texas, co-author of the anti-price discrimination law that bears his name. Mr. Patnam charged that the bill would revive the old basing-point system, which the court has outlawed in the Cement Institute case, and would undo all the work that has been done for the protection of little business against cutthroat competition of their big competitors.

The first section of the bill amends section 5 (a) of the Federal Trade Commission act to provide that in the absence of combination, conspiracy, or fraudulent practices, which are practices designed illegally to drive a competitor out of business, the FTC act shall not deprive sellers of the right to quote or sell at delivered prices or to absorb freight.

Sections 2 and 3 of the bill would amend sections 2 (a) and 2 (b) of the Clayton act to clarify the extent of the right of sellers to engage in competition and to compete in all markets at all times.

Language of Amendment

Section 2 amendments section 2 (a) of the Clayton act by adding a new proviso that it shall not be an unlawful discrimination for sellers, acting without combination, conspiracy or collusive agreement, to:—

"1. Quote or sell at delivered prices (a) which are identical throughout the country, or (b) which are identical at different delivery points, in any geographical zone or area, or (c) where differences between such prices are not such that their effect upon competition may be that prohibited by section 2 of the act, to wit:—substantially to lessen competition or tend to create a monopoly in any line of commerce, or to injure, destroy, or prevent competition; or

"2. Absorb freight to meet the equally low price of a competitor in good faith."

The bill does not attempt to limit the frequency with which or the area within which freight may thus be absorbed to meet the equally low price of a competitor, or competitors, in good faith. Freight absorption may be regular and customary so long as there is no showing of combination, conspiracy, or collusive agreement. The bill further provides that the absorption of freight to meet the equally low price of a competitor in good faith may include the maintenance, above or below the price of such competitor, or a differential in price which the seller customarily maintains.

Section 3 of the bill amends section 2 (b) of the Clayton act so as to provide that the discrimination in price which must be proved before the seller is required to show justification is that which shall have the effect upon competition which is prohibited by section 2 (a) of the Clayton act, namely, substantially to lessen competition, or tend to create a monopoly in any line of commerce, or to injure, destroy, or prevent competition.

Flaxseed 1949 Price Support Details Given

Formal announcement of the details of the 1949 support program for flaxseed was published by the Department of Agriculture in the *Federal Register* of July 7. Announcement previously has been made by the department that the support price for the 1949 crop will be $3.99 a bushel, basis Minneapolis.

The loans and purchase agreements under the program will be available from harvest of the crop through October 31, 1949, for the states of Arizona, California and Texas, and through January 31, 1950, for all other states. The loans will mature on demand not later than January 1, 1950, for Arizona, California and Texas, and not later than April 30, 1950, for all other states.

Royalty Oil Premiums Discontinuance Approved

The senate voted its approval on July 6 of S. 1647 to relieve certain small petroleum refiners of the necessity of continuing to pay premium payments on royalty oil under contracts negotiated with the Department of the Interior a year ago during the crude oil shortage.

The refiners entered into the contracts under which they agreed to pay the posted price plus a premium, when they found their normal sources of crude supplies cut off, in order to continue operations. Subsequently when crude supplies eased, they found that they were bound by the contracts to continue the payment of the premium and as a result they now are unable to compete with the prices of their competitors products.

ECA Paris Chemical Section Discontinued

Otto Frankfurther, who has been with the Paris office of the Economic Cooperation Administration for the past six months handling matters in the chemicals and allied fields, is no longer with the agency as a result of a reorganization of the Paris office, according to word received by the Washington headquarters of ECA.

The reorganization is understood to have abolished the chemical section as well as several other sections in the interest of more efficient operations. Prior to joining ECA, Mr. Frankfurther was with the Heyden Chemical Corporation, New York.

Anti-Hog Cholera Serum Marketing Budget Approved

Secretary of Agriculture Brannan has approved a budget of $36,725 for meeting the expenses of the anti-hog cholera serum and hog-cholera virus marketing agreement during 1949. As a result of a surplus amounting to $3,002.77 remaining from last year's budget, a balance of $33,722.23 will be collected this year.

Of this latter amount, all but $1,000 will be assessed against handlers who are manufacturers and the $1,000 will be assessed against handlers who, as distributors, market their products principally through veterinarians or other channels.

Antibiotics Bill Voted

House bill 3151 providing for certification of auromycin, chloramphenicol and bacitracin by the Federal Food and Drug Administration was passed unanimously by the senate July 6. The bill now goes to the White House when it is expected to be signed promptly by President Truman.

Insecticides Use Increase Seen Resulting from Heavy Infestation

Officials of the Bureau of Entomology and Plant Quarantine estimate that the uses of insecticides this year to curb the ravages of plant pests on crop and range lands will exceed that of any of the past three years. No estimates can be given because of the variety of toxic agents being employed, but officials state that the insect infestation appears to be such that a heavy increase in insecticides is being called for.

The two biggest insect problems facing officials of the Federal and state governments this year is the grasshopper menace to the grazing ranges of Wyoming, Montana and Nevada, where observers are likening it to the plague of 1930, and the heavy infestation of the boll weevil in the cotton belt due to wet weather.

Grasshopper Control Difficult

The agents being used against the grasshoppers are toxaphene, chlordane and some sodium silicofluoride. In the open ranges, where individual efforts by rangers and farmers cannot cope with the menace, airplanes are attempting to meet the invaders with bran bait in which the chemicals have been mixed.

The boll weevil menace is being met chiefly with benzene hexachloride, DDT, and toxaphene, but officials report that supplies of these chemicals are tightening up and it is almost certain that increased amounts of calcium arsenate will have to be called for. Until the development of the new chemicals, calcium arsenate was the principle insecticide used against the weevil.

While the new chemical compounds have proven more effective, officials report that the advantage of calcium arsenate is in the time saved in manufacture and application. The other chemicals all have to be assembled, blended and put through other processes before they are ready for use, all of which takes time, and unless this has all been accomplished beforehand the damage to the crop has already been done. Calcium arsenate, on the other hand, can be applied as quickly as it is produced.

Vitamin E Price Reduced 15c. by Hoffmann-La Roche

Hoffmann-La Roche, Inc., Nutley, N. J., announced last week a 15 cents per gram price reduction, effective July 8, on pure dl-alphatocopherol and on dl-alphatocopherol acetate.

The new price schedule on these synthetic vitamin E materials is identical for both products, and lists amounts of 100 grams or over at 45 cents per gram, 5 to 99 grams at 48 cents and 1 gram at 55 cents. These prices are f.o.b. Nutley, with freight allowed to or equalized with St. Louis, Philadelphia, Los Angeles and San Francisco.

Synthetic vitamin E acetate is the international reference standard for vitamin E because of its stability and because it can be standardized in terms of weight. The acetate is packaged by Hoffmann-La Roche in aluminum bottles holding a maximum of thirty, 120, 300, 1,200, 2,400 and 5,600 grams. Alphatocopherol is packaged in sealed amber glass ampuls under inert gas, because of its being subject to oxidation.

The company has issued a brochure for the medical profession, pointing out the wide margin of error in assaying for vitamin E content the mixed tocopherol isomers, such as occur in the natural product concentrates, by such methods as biological assay, chemical analysis, or spectrophotometric determination.

Chemical Specialties To Make Progesterone

The Chemical Specialties Company, New York, has been authorized to manufacture and sell progesterone in bulk to all pharmaceutical companies under the terms of a directive issued to the Schering Corporation by the Office of Alien Property, Department of Justice. Chemical Specialties has been informed by OAP that it has qualified as a licensee under the OAP policy of licensing captive Schering patents.

Customers of Chemical Specialties will in turn be licensed by Schering with reasonable royalties to resell the hormone in final packaged form as a pharmaceutical product. The directive provides that royalties will commence with the signing of a license agreement between Schering and the pharmaceutical reseller.

Dr. I. V. Sollins, general manager of Chemical Specialties, said that his company will also be licensed to sell in bulk other hormones covered by Schering product patents, such as a-estradiol, a-estradiol benzoate and ethinyl estradiol.

Reynolds Metals Appoints Fleming Pigment Sales Head

Reynolds Metals Company, Richmond, Va., has appointed A. P. Fleming sales manager of its pigment division, with headquarters in New York. Mr. Fleming was formerly located in the company's Philadelphia office. F. W. Allsmiller, assistant sales manager of the division, has been transferred from New York to Louisville, Ky. Other personnel changes in the pigment division are:—

J. W. Macauley, of the New York office, has been assigned to the Philadelphia and Pittsburgh territories, with headquarters in Philadelphia; E. F. Reilly has been transferred from San Francisco to Kansas City and assigned to the central states division; A. H. Kleinfeldt has been named assistant to Gordon M. Babcock, technical director; L. H. Besten has been placed in charge of sales service in the New York office, and L. V. Sheain has been transferred from the pigment division to the newly formed chemical division.

Kinetic Chemicals Names Young 'Freon' Sales Head

Kinetic Chemicals, Inc., Wilmington, Del., has appointed Dr. Edmond G. Young to be in charge of sales of "Freon" fluorinated hydrocarbon propellants, to succeed W. Warren Rhodes, who has retired. Dr. Young, who will also be responsible for providing technical service in the use of the propellants, joined Kinetic Chemicals last year after four years in fluorine chemistry research at the Deepwater Point, N. J., laboratory of E. I. du Pont de Nemours & Co.

Leaves Prior for Mathieson

Charles W. Frost, formerly vice-president of the Prior Chemical Corporation, New York, has joined the industrial chemicals sales division of the Mathieson Chemical Corporation, New York. After several years with the Union Carbide & Carbon Corporation, Mr. Frost joined Prior in 1930. He was a division sales manager before being elected a vice-president last year.

Canaday Offered Post As Munitions Board Head

President Truman has offered the chairmanship of the Munitions Board to Ward M. Canaday, former chairman of the board of Willys-Overland Motors, Inc., and co-chairman of the Caribbean Commission. If Mr. Canaday accepts the post, he will fill the vacancy left by the recent resignation of Donald F. Carpenter, who has returned to E. I. du Pont de Nemours & Co.

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Lead Price Advanced

The price of lead was raised 1 cent per pound late Friday to a price of 13 cents per pound at New York. The increase was immediately reflected in prices for lead pigments (see market for protective coatings materials).

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Flaxseed and Linseed Oil Offered by CCC

The Commodity Credit Corporation is offering its 5,000 carloads of linseed oil crushed from the 1948 crop to the trade at a flat price of 23½ cents a pound in storage, Minneapolis basis, according to information made available by the agency last week. The agencies flaxseed holdings also are being offered for sale at $5.25 a bushel, f.o.b. cars at Minneapolis and boats at Duluth.

The new prices were established by CCC on July 1 after Congress had approved legislation and President Truman signed the bill to continue the control of imports of flaxseed and linseed oil into the United States for another year. The new prices will represent losses to the agency of about $1 a bushel on the flaxseed and between three and four cents a pound on the oil.

CCC still has about 16,000,000 bushels of flaxseed from the 1948 crop for sale at the new price, which it had acquired under its $6 price support program last year. It previously had attempted to dispose of the flaxseed to the highest bidders, but all of the bids submitted were considered too low and were rejected. They ranged around the new support price of $3.99 for the 1949 crop of flaxseed and slightly higher.

Rejection of the bids brought demands from prospective buyers that the agency establish a flat price for the seed. When it became apparent that CCC would be unable to dispose of any sizable quantities by competitive bidding, it was decided to let it all go at the $5.25 price. The 16,000,000 bushels available for sale at this price shows that 4,000,000 bushels have been disposed of since the agency last announced its inventory figure. It was not stated, however, at what price the 4,000,000 bushels were sold.

Spencer Kellogg Plans Flax Crushing Resumption

Spencer Kellogg & Sons, Inc., Buffalo, N. Y., will resume linseed crushing operations about the middle of July, according to Howard Kellogg jr., president of the company. Flax crushing operations have been idle since May. Mr. Kellogg said that the first flax to be crushed will be for the government. It will be converted to oil to ease the government's flax storage problem. He said that the plant is unlikely to start crushing linseed oil for its own accounts until September.

Velsicol to Appeal Chlordane Decision

The decision of the First Division of the Appellate Court of Illinois, holding that Dr. Julius Hyman is the owner of applications for patents covering chlordane, is being appealed to the Supreme Court of Illinois, the Velsicol Corporation, Chicago, announced last week. Velsicol, institutor of the suit, was originally upheld by the Superior Court of Cook County but the decision was reversed by the Appellate Court on June 20.

Monsanto Names King To New Chemicals Post

Monsanto Chemical Company, St. Louis, Mo., has appointed Carl P. King assistant to the general manager of its chemical division, Springfield, Mass., and has named Robert K. Mueller to succeed Mr. King as production manager of the division. In his new post Mr. King, who has been with the Monsanto organization since 1925, will assume additional responsibility for the coordination of the plastics division.

Dr. E. Little to Receive 1949 Remington Medal

The New York branch of the American Pharmaceutical Association has named Dr. Ernest Little, past president of APhA and former dean of Rutgers University College of Pharmacy, as 1949 recipient of the Remington Medal.

Who Has It?

Inquiries in the OPD editorial office seek sources from which the materials listed below can be obtained. Information will be gratefully received here:—

Barium fluosilicate.
Beta-(4-hydroxy - 3,5 - di-iodophenyl) alpha-phenylpropionic acid.
Methyl phenyl urethane.
Nitrocarbonic acid.
Para-ethyl phenol.
Phenylurethane sulphochloride.
Sulphydryl pentathionate.

ECA Announces Additional Procurement Authorization

New procurement authorizations to Marshall Plan countries, announced by the Economic Cooperation Administration during the period June 30 through July 6 amounted to $56,587,000, raising the total of such authorizations to date to $5,911,586,000. Among the new authorizations were the following:—

To Austria—$21,000 for bristles, $347,000 for chemicals, excluding fertilizers and synthetic rubber, $14,000 for alcohol, and a decrease of $180,000 for vegetable oils and fats, all from the United States.

To Belgium-Luxembourg—$350,000 for soap, soap stock and fatty acids, and $250,000 for tallow and other animal fats, from the United States.

To Bizone Germany—$50,000 for miscellaneous inedible animal and vegetable products, $1,400,000 for turpentine, $2,058,000 for rosin, $500,000 for tallow and other animal fats and oils, all from the United States; $240,000 for crude oil from Latin America.

To France—$152,000 for soybeans from the United States, and $6,229,000 for petroleum from the Middle East.

To French Zone Germany—$40,000 for turpentine, $140,000 for vegetable oils and fats, and a decrease of $19,000 for linseed oil from the United States.

Greece Gets Petroleum

To Greece—$286,000 for petroleum, $75,000 for inedible molasses, $500,000 for nitrogenous fertilizer, and $125,000 for tallow and other animal fats and oils, from the United States.

To Iceland—$150,000 for soybean oil from the United States.

To Ireland—$208,000 for inedible molasses from Latin America.

To Italy—$1,685,000 for crude oil from the United States; $1,904,000 for the same from Latin America and $1,411,000 for the same from the Middle East.

To Netherlands—$130,000 for copper, $240,000 for phosphate rock, $120,000 for vegetable oils and fats, and $140,000 for tallow and other animal fats and oils, all from the United States; $300,000 for petroleum from Latin America, and $565,000 for petroleum from the Middle East.

To Sweden—$15,000 for medicinal and pharmaceutical preparations from the United States.

To Trieste—$287,000 for petroleum from Venezuela and $1,961,000 for petroleum from the Middle East.

To United Kingdom—$2,500,000 for chemicals excluding fertilizers and synthetic rubber from the United States.

To Korea—$250,000 for phosphate rock, and $98,000 for industrial chemicals other than alcohol, from the United States; $536,000 for nonmetallic minerals from Japan and $332,000 for petroleum from the Middle East.

Summers Labs Elects

Summers Laboratories, Inc., pharmaceutical manufacturer, Ambler, Pa., has elected Ralph R. Umsted president. Mr. Umsted is also a principal stockholder of the company. The company will continue the manufacture and distribution of proprietary medicines under the Millis Laboratory label.

Foreign Sales Leads

Anyone interested in supplying the following inquiries with goods or information can get the full address of the inquirer by communicating — not by telephone, please—with OPD office:—

Bone and hoof meal, Antwerp, Belgium (EA-5).

Bone grease, Antwerp, Belgium (EA-5).

Botanicals, Basel, Switzerland (EA-8, agency).

Calcium carbide, Palermo, Italy (EA-7).

Chemicals, Milan, Italy (EA-2, agency); Frankfurt a. M., Germany (EA-6); Basel, Switzerland (EA-8, agency); fine and heavy, Salonika, Greece (EA-9, agency).

Cosmetics, Teheran, Iran (EA-1, manufacturers).

Explosives, Palermo, Italy (EA-7).

Glucose, Beirut, Lebanon (EA-3, agency).

Lubricating oil, Palermo, Italy (EA-7).

Machinery, Asuncion, Paraguay (EA-4).

Pharmaceutical products, Milan, Italy (EA-2, agency); Basel, Switzerland (EA-8, agency); Salonika, Greece (EA-9, agency).

Spices, Basel, Switzerland (EA-8, agency).

Foreign Market Lists

Lists of foreign outlets for chemicals and related materials and consumers goods recently compiled by the Commercial Intelligence Division of the United States Department of Commerce, include the following, which are available from the division at $1 for a list for any one country:—

Ink manufacturers—Argentina, Peru.

Paraffin-wax importers, dealers—Colombia.

Textile industry—Iran.

NYQ Vice-President

Barclay E. Mackinnon, associated with the New York Quinine & Chemical Works, Inc., since 1933, has been elected a vice-president of the company. After starting with the firm's sales department, Mr. MacKinnon was transferred to its purchasing department in 1935 and four years later was placed in charge of its export sales. Following a three-year tour with the Army, he returned to the firm as purchasing agent in 1946 and the following year was elected assistant secretary and assistant treasurer.

Filo Names Bralla & McGrath Metropolitan Representative

The Filo Color & Chemical Corporation, New York, has appointed Bralla & McGrath, New York, as representative to the paint and varnish industry in the Metropolitan area for the complete line of Filo's chemical pigment colors.

The firm of Bralla & McGrath was organized last May by George M. Bralla, who was executive vice-president of the Valspar Corporation when he resigned, and Walter P. McGrath, who had been general superintendent of Valspar's Brooklyn plant.

Administration Acts to Expand Operations in Private Industry

A revised version of the Spence anti-inflation bill (H. R. 2756) is being drawn up by a group of liberal senators and members of the house for introduction later this session, and it again raised the threat of the government getting into the business of manufacturing or at least having a major stake in manufacturing operations.

It is understood that the sponsors will propose the bill to implement the program of the President for heading off a major business recession or depression. President Truman is drafting a lengthy message to Congress on the general economic situation which will be delivered today (Monday) and in which it is expected that he will outline his views on legislative actions that Congress should take to soften the impact of a major business decline.

At his press conference on July 7, Mr. Truman told newsmen that he was "bullish" about the general economic situation and his sentiments have been echoed by other leaders in government and Congress, but nevertheless persons close to the White House have intimated that the President feels that the government should be ready to step in with emergency control measures should the situation show signs of getting out of hand.

Not many of the details of the bill which is being prepared by the legislators to implement the anti-depression program are known, but it is understood to mention specific lines of manufacturing that the government should either get into or finance the expansion of as a means of providing employment. Among these industries are fertilizer manufacture and production of synthetic fuels.

One of the sponsors of the bill is Senator John Sparkman of Alabama, colleague of Senator Lister Hill of Alabama who, for years, has been sponsoring a bill for construction of a phosphatic fertilizer plant at Mobile, Ala., and for the erection of other government-finance plants in the west for development of the western phosphate lands.

Concern to Fertilizer Manufacturers

The Hill bill has been one of the chief threats of government invasion of the field of fertilizer manufacture and while it has never gotten beyond the stage of hearings before congressional committees it has nevertheless been a source of continuous agitation and concern to the private fertilizer manufacturers.

So far, Senator Hill has failed to introduce the bill this year, nor has he explained why he has not introduced it. It is recalled, however, that under the Spence bill the same ends could have been accomplished as under the Hill bill. Among other things, it provided that the government should build and operate manufacturing plants in any industry which was not producing sufficient products to meet demand. Under its broad provisions the government could have built the Mobile plants or any other plants that might be considered necessary or desirable.

Merchants Chemical Elects Skidmore as New President

Lemuel Skidmore, former vice-president of the Merchants Chemical Company, New York, has been elected president, to succeed the late Irving H. Taylor, founder

Lemuel Skidmore

of the firm, who died on June 8. John B. Caldwell, also a vice-president, has been elected executive vice-president.

Actual operation of the company will continue under the direction of Mr. Caldwell and John V. McGrevy, secretary and New York manager.

Mr. Skidmore, partner in the law firm of Putney, Twombly, Hall & Skidmore, New York, has been associated with Merchants as counsel since the firm was founded about twenty-one years ago. Mr. Caldwell, formerly associated with General Motors, joined Merchants four years ago to open its Detroit office. Later he was named assistant to the president.

Poisons Packaging Bill Introduced in Senate

Senator Claude Pepper, of Florida, introduced a bill (S. 2193) in the senate last week which would require all drugs of a poisonous character to be packaged in distinctive containers that would readily be recognized by touch. The bill is similar to a bill that was passed by the Florida legislature last month, applying to sales of drugs within the state, but vetoed by the governor as being impractical and unenforceable.

Senator Pepper's bill adds a new subsection (m) to section 502 of the Federal food, drug and cosmetic act to provide that if a drug is poisonous and is designated by the administrator as being a drug which requires special packaging, it shall be packaged in containers which have distinctive surfaces, such as rough sides or edges. The bill was referred to the senate committee on labor and public welfare.

Magnus Enters N.Y. Mayoralty Contest

Percy C. Magnus, president of Magnus, Mabee & Reynard, essential oils, New York, announced on July 7 that he was ready to serve as a candidate in the November New York mayoralty election "to give the city a business administration and rid it of the political healers."

He made his statement before forty business and professional men who gathered in the Astor hotel to form a "Magnus for Mayor" committee and seek Republican and Fusion endorsement for their nominee. Should such endorsement not materialize, the committee will circulate petitions in an effort to qualify Mr. Magnus as an independent.

Washington Talks It Over

By Ralph L. Cherry

The current controversy now waging in Congress over price supports for farm crops is characterized by some as probably marking the cross roads of agriculture—whether the industry ever again will be able to stand on its own feet without governmental financial assistance. Beneath the surface of the controversy is a question more fundamental than just providing farmers with "easy" dollars; its a question of markets for agricultural products and how to retain them.

The big rise in farm incomes and the continued high prices of farm products since the war has blinded many advocates of high government support prices to what is occurring in the field of farmers markets. They are gradually being taken away and once gone the prospects that they can ever be recaptured are practically nil. For the higher prices are for the products of the farm, the more intense becomes industry research for substitutes.

The livestock industry has had this fact brought home to it probably more so than any other segment of agriculture. It is being predicted with some degree of reasonableness that 40 percent of the soap market for the fats and tallows of the livestock industry will eventually be taken over by the synthetic detergents. The story of glycerin is even more pointed. The synthetizing of this material and its commercial production is like the handwriting on the wall to the producers of the natural product. Leather for shoe soles is another market that is being lost to the plastic substitutes.

The motivating influence for development of these substitutes has not been primarily a desire to create something better, but something just as good but cheaper. And the support prices maintained under farm products at high levels has provided just the incentive needed to find the substitute. Once the new competition has been permitted to emerge, develop and become stabilized, it marks the beginning of the end of that market for the natural product of the farms.

Nicotine Use in Plant Growth

The discovery of plant-growth regulating properties in several different chemicals based on nicotine has led Department of Agricultural scientists responsible for it to see a possibility of using these chemicals in growing sturdier transplants. The reaction of six related complex nicotinium compounds on bean seedlings were tested.

All the six chemicals tried had somewhat the same effect of retarding the lengthening of the stems, producing stockier plants both in the light and also in darkness, where most seedlings tend to spindliness, but one, called 2,4-dichlorobenzylnicotinium-chloride (shortened to 2,4-DNCL), was the most effective. In tests with it, one-half a milligram had a great effect in keeping down the elongation of bean stems.

Although these laboratory results were striking, because of the small tests and artificial conditions, the investigators consider them merely as opening up new possibilities. Earlier results of research on plant growth regulators are proving important in killing weeds, holding apples and pears on trees, increasing vitamin content of green beans and in other ways.

'Scotch' Belongs to Scotland

One year from now if you find any domestic producers of spirits fermenti putting out a product labeled as "Scotch" or a "blend of Scotch" whiskies, it is pretty certain that they are violating the law. For the Bureau of Internal Revenue has ruled that the name "Scotch" belongs solely to Scotland and cannot be appropriated by anyone for their product which is not made in Scotland.

That doesn't mean that the name cannot be used at all on a bottle of domestic whiskey. Producers can still put out a product which they would like to call Scotch, but they can only refer to it as a Scotch "type" whiskey. The words Scotch," "Scots," "Highland" or "High-

—*Continued on page 36*

Establish

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Aluminum Sulphate
Bisulphate of Soda, Globular
Caustic Potash
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Disodium Phosphate, Anhydrous
Gelatin, Edible
Gelatin, Pharmaceutical (capsule)
Gelatin, Photographic
Glauber Salts
Lactic Acid
Lanolin
Formaldehyde
Magnesium Fluosilicate
Magnesium-Zinc Fluosilicate Mixture
Mono Calcium Phosphate
Muriatic Acid
Naphthalene, Flake and Balls
Nitric Acids
Orthodichlorbenzene
Orthocresol
Oxalic Acid
Paradichlorbenzene
Phosphoric Acids
Saccharine
Salt Cake
Soda Ash
Sodium Acetate, Tech. 60%
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Sodium Orthosilicate
Sodium Sesquisilicate
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Association Meetings

Affiliated Drug Stores, New Yorker hotel, New York, September 11-16.

American Association for the Advancement of Science, New York, December 26-31.

American Association of Textile Chemists and Colorists, Chalfonte-Haddon Hall, Atlantic City, N. J., October 13-15.

American Chemical Society, Atlantic City, N. J., September 18-23.

American Gas Association, Palmer House, Morrison and Sherman hotels, Chicago, October 17-20.

American Institute of Chemical Engineers, William Penn hotel, Pittsburgh, Pa., December 4-7.

American Oil Chemists Society, Edgewater Beach hotel, Chicago, October 31-November 2.

American Petroleum Institute, Chicago, November 7-10.

American Pharmaceutical Manufacturers Association, Waldorf-Astoria hotel, New York, November 28-30.

American Soybean Association, Nicollet hotel, Minneapolis, Minn., September 6-8.

American Standards Association, Waldorf-Astoria hotel, New York, October 11-14.

Associated Chain Drug Stores, New Yorker hotel, New York, September 25-29.

Association of Consulting Chemists and Chemical Engineers, Sheraton hotel, New York, October 25.

Chemical Specialties Manufacturers Association (formerly NAIDM), Mayflower hotel, Washington, December 4-5.

Drug, Chemical and Allied Trades Section, New York Board of Trade, annual meeting, Shawnee Inn, Shawnee-on-Delaware, Pa., September 22-25.

Electrochemical Society, LaSalle hotel, Chicago, October 12-14.

Exposition of Chemical Industries, Grand Central Palace, New York, November 28-December 3.

Federal Wholesale Druggists Association, Atlantic City, N. J., October 5-8.

Federation of Paint and Varnish Production Clubs, Chalfonte-Haddon Hall, Atlantic City, N. J., November 3-5.

Independent Natural Gas Association of New York, Baker hotel, Dallas, Tex., October 31.

Independent Petroleum Association of America, Blackstone hotel, Fort Worth, Tex., October 2-4.

International Congress of Biochemistry, Cambridge, England, August 19-25.

International Congress of Military Medicine and Pharmacy, Mexico City, Mexico, October 23-29.

International Union of Chemistry, Amsterdam, Netherlands, September 6-10.

National Association of Retail Druggists, Seventy-First Regiment Armory, New York, September 18-22.

National Butane-Propane Association, Jefferson hotel, St. Louis, Mo., September 19-21.

National Foreign Trade Council, Waldorf-Astoria hotel, New York, October 31-November 2.

National Lubricating Grease Institute, Roosevelt hotel, New Orleans, La., October 3-5.

National Paint, Varnish and Lacquer Association, Chalfonte-Haddon Hall, Atlantic City, N. J., October 31-November 1.

National Pest Control Association, Biltmore hotel, Los Angeles, Calif., October 17-19.

National Petroleum Association, Traymore hotel, Atlantic City, September 14-16.

National Wholesale Druggists Association, Ambassador and Ritz-Carlton hotels, Atlantic City, N. J., October 8-13.

Navy Industrial Association, Waldorf-Astoria hotel, New York, September 28.

North American Gasoline Tax Conference, Tahoe Tavern, Lake Tahoe, Calif., September 7-10.

Oil Trades Association of New York, Waldorf-Astoria hotel, New York, October 27.

Pacific Chemical Exposition, San Francisco Civic Auditorium, November 1-5.

Packaging Institute, annual forum, Commodore Hotel, New York, October 24-26.

Packaging Machinery Manufacturers Institute, Edgewater Beach hotel, Chicago, October 31-November 2.

Synthetic Organic Chemical Manufacturers Association, Commodore hotel, New York, September 14; annual meeting, Commodore hotel, December 7.

Western Conference on Packaging, Packing and Shipping and Western Packaging Exposition, San Francisco Civic Auditorium, August 9-12.

ADM Appoints Schroeder Fatty Acid Sales Head

Burton W. Schroeder has been appointed manager of fatty acid sales for the Archer-Daniels-Midland Company, Minneapolis. He was formerly in charge of the industrial cereal products division. With the company since 1939, except for wartime naval service, Mr. Schoeder has an extensive background in several ADM plants. His experience includes technical service and laboratory control work, marketing studies and research in oils and industrial proteins for protective coatings.

ACCCE Assigns Bowers

The Association of Consulting Chemists and Chemical Engineers, New York, has appointed A. B. Bowers director of publicity. Mr. Bowers will also function as editor of the association's new publication *Your Consultant.*

Hitchcock Joins National Dairy; Duffey Gets Quaker Oats Co. Post

Dr. Lauren B. Hitchcock has resigned as vice-president in charge of the chemicals department of the Quaker Oats Company, Chicago, and, effective August 1, 1944, after serving for nine years as a consulting chemical engineer for the Hooker Electrochemical Company, Niagara Falls, N. Y. He is a former president of

Dr. Lauren B. Hitchcock

Dr. Homer R. Duffey

will become director of research and development for the National Dairy Products Corporation, New York, and president of its subsidiary, National Dairy Research Laboratories, Inc. Dr. Homer R. Duffey succeeds him as general manager of the Quaker Oats chemicals department.

Dr. Hitchcock joined Quaker Oats in the Commercial Chemical Development Association.

Dr. Duffey joined Quaker Oats in 1945 after having spent six years as chief engineer for the Vulcan Copper & Supply Company, Cincinnati. From 1933 until 1939 he was associated with the technical division of E. I. du Pont de Nemours & Co., Wilmington.

Barnes Retires from Solvay, Hildreth Heads Purchasing

E. Eustin Barnes, purchasing agent for the Solvay Process Division, Allied Chemical & Dye Corporation, Syracuse, N. Y., retired on July 5 after fifty-nine years with the Solvay organization. He has been succeeded by K. E. Hildreth, former assistant purchasing agent.

Mr. Barnes had been in charge of purchasing raw materials, packing materials and other items for the Solvay alkali plants at Syracuse, Detroit and Baton Rouge for more than twenty-five years. In addition, he has been responsible for supervision of purchases for the division's building and construction program.

Mr. Hildreth joined the Solvay Process Company in 1927 after prior experience with the Atlas Portland Cement Company and the Semet-Solvay Company.

Vitamin Foundation Awards Six New Research Grants

The National Vitamin Foundation has announced six new grants in aid as part of its program to discover basic information on the effects and significance of vitamins to human health and resistance to disease.

The foundation has also appointed the following to its scientific research committee:—Dr. Ernest Bueding, associate professor of pharmacology, Western Reserve University, School of Medicine; Dr. Wendell H. Griffith, chairman, department of biochemistry and nutrition, University of Texas, and Dr. Russel M. Wilder, chief, department of medicine, Mayo Clinic.

Jefferson Lake Sulphur Postpones Merger Meeting

The Jefferson Lake Sulphur Company, New Orleans, La., has postponed until July 26 a meeting of stockholders which is to vote on a proposal to merge the Louisiana corporation into the Jefferson Lake Sulphur Company, a New Jersey corporation. The meeting will take place at 11 a.m. on July 26 at the New Orleans headquarters, 1408 Whitney building. The close of business on July 5 has been fixed as the record date for determining shareholders entitled to vote at the meeting.

General Aniline Moves Sales Development Dept.

The General Aniline & Film Corporation, New York, has transferred the offices of its central sales development department from 247 Park avenue, New York, to 22 Central square, Easton, Pa. The department, which is headed by Dr. Philip M. Kirk, is now included in the research and development division of the company.

Du Pont Names Buchanan, Carpenter to Rayon Dept.

E. I. du Pont de Nemours & Co., Wilmington, has appointed Andrew E. Buchanan, jr., assistant general manager of its rayon department and has named Donald F. Carpenter assistant manager of the department.

Mr. Buchanan joined the du Pont organization in 1918 and was associated with it until 1922. After a period in editorial and organizational capacities, he joined the Remington Arms Company, a du Pont subsidiary, in 1936. In 1944 he was transferred to the company's rayon department as assistant manager of the technical division, and was named acting assistant manager of the department in January of this year.

Mr. Carpenter, who recently retired as chairman of the Munitions Board, was vice-president and assistant general manager of Remington Arms Company, before accepting the Munitions Board appointment. He has been associated with the du Pont organization since 1927.

ADMA 1950 Meeting Set for Boca Raton, Fla.

The American Drug Manufacturers Association has again selected Boca Raton, Fla., as the place for its annual meeting in 1950, according to Carson P. Frailey, executive-vice-president of the association. The meeting will be held beginning March 27 and run through the remainder of the week.

Mr. Frailey said that while no definite decision has been reached it has been tentatively agreed that the 1951 annual convention of the association will be held at White Sulphur Springs, W. Va. The convention will be held sometime around the end of April.

International Paint Makers Meeting Scheduled in Paris

The first International Convention-Exhibit of Manufacturers of Paint, Varnish and Lacquer will be held in Paris, France, on October 19 to 22. Persons or organizations interested in participating should contact the Secretariat General de l'Union Nationale des Peintres-Vitriers de France, 28 bis, rue Saint Dominique, Paris 7e.

ASA Issues New Standards

The American Standards Association has issued its midyear list of standards and special publications, which contains more than 140 new American standards. Included in the new standards listed for the first time are a series on chemicals used in photographic processing and on soap specifications.

ASTM Sets Program For Pacific Meeting

The American Society for Testing Materials has completed the program for its first Pacific area national meeting, to be held at the Fairmont hotel, San Francisco, on October 10 to 14.

October 10

Committee meetings will be held on the morning of October 10, and the opening session of the meeting will be held in the afternoon. There will be sessions on "Plasticity and Creep of Metals" and on "Soils" in the afternoon, and on "Fatigue of Metals" and "Bituminous Paving Mixtures" in the evening.

October 11

The morning sessions will be devoted to "Dynamic Stress Determinations" and "Ceramic and Concrete Products," with the luncheon period devoted to cement discussions. In the afternoon there will be a session on the "Application of Statistics."

October 12

In the morning there will be a petroleum session, devoted to a symposium on high additive content oils, and a session of cement and concrete. The luncheon will be devoted to petroleum problems, and there will be a symposium on turbine oils in the afternoon. Also in the afternoon, the cement and concrete session will be devoted to a symposium on pozzolans.

October 13

In the morning there will be sessions on wood and one on "Paint: Aircraft Finishes," with the luncheon session being also devoted to paint. In the afternoon there will be a symposium on cast iron and a session on "Paint: New Methods of Testing."

The final day of the meeting will be devoted to a trip to the University of California.

Foreign Trade Council To Meet Oct. 31-Nov. 2

The National Foreign Trade Council will hold its thirty-sixth National Foreign Trade Convention at the Waldorf-Astoria hotel, New York, on October 31 to November 2. The meeting will emphasize the theme "World Economic Well-Being Through Increased Production and Trade."

Among the speakers who will address convention sessions will be:—Eugene Holman, president, Standard Oil Company (New Jersey); Allan B. Kline, president, American Farm Bureau Federation; Donald Gordon, deputy governor, Bank of Canada; George Meany, secretary-treasurer, American Federation of Labor; Edward Riley, general manager, General Motors Overseas Operations, and J. E. Slater, Executive vice-president, American Export Lines, Inc.

Principal speakers at the special events during the convention will be:—World Trade dinner, November 2, Secretary of State Dean Acheson; Europe luncheon, November 2, Henri Bonnet, French ambassador to the United States; Americas luncheon, October 31, Dr. Mauricio Nabuco, Brazilian ambassador to the United States, and Far East luncheon, November 1, Mrs. Vijaya Lakshmi Pandit, Indian ambassador to the United States.

FWDA Names Committee Heads for Annual Meeting

The Federal Wholesale Druggists Association has appointed committee chairmen for its thirty-fourth annual meeting, to be held at the Chalfonte-Haddon Hall hotel, Atlantic City, N. J., on October 5 to 7. The various committee heads are:—

Entertainment, L. Bernegger, Whitehall Pharmacal Company; golf, I. K. Fearn, American Thermos Bottle Company; publicity, H. S. Fraker, Topics Publishing Company; reception, S. C. Gamage, Magnus, Mabee & Reynard, Inc.; program, W. T. Halsted, Thomas Leeming Company; transportation, R. B. Magnus, Magnus, Mabee & Reynard, Inc., and registration, R. P. Neptune, S. B. Penick & Co.

Atlas Powder Combines Research, Development

Atlas Powder Company, Wilmington, Del., has combined the functions and personnel of its development department with those of its research department. The combined research and development department will be under the direction of K. R. Brown, who has been director of the research department since 1940. James T. Power, who was director of the development department, retired on July 1.

Baker's CALCIUM NITRATE

A high purity *coagulant* especially manufactured for compounders of latex products...

The dependable uniformity and high quality of Baker's Calcium Nitrate gives it an ever-widening appeal to the rubber industry.

Especially manufactured for use by latex compounders, Baker's Calcium Nitrate has the exceptionally high purity demanded in a coagulant. It has superior wetting qualities . . . does not harden in the barrels, and remains in workable condition . . . gives more uniform results, with less trouble in process work.

This product is a technical crystal ranging in size from 1½" to smaller sizes. It is a creamy white color. It contains 3 molecules of water of crystallization.

Baker's Calcium Nitrate helps reduce overall production costs—gives you efficient and economical results! Specify it for your processing.

Baker supplies several other chemicals to the rubber industry—chemicals known for their uniformity and dependability. Whatever your needs, your inquiries for samples and prices are invited. Write to J. T. Baker Chemical Co., *Executive Offices:* Phillipsburg, New Jersey.

6 Baker Chemicals for the Rubber Industry

CALCIUM NITRATE
MAGNESIUM OXIDE
MAGNESIUM CARBONATE
LEAD ACETATE
LEAD PEROXIDE
CARBON DISULFIDE

Baker's Chemicals

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Current Market Quotations

Chemicals and Related Materials

July 8, 1949

Unless otherwise indicated, listings are first-hand quotations on large lots, f.o.b. New York. Changes and trends are noted in the market reports, with other informative comment. The locations of these reports are given in the table of contents on page 4. The figures in the two columns do not represent bid and asked prices nor a range over the week. They are the quotations prevailing on the date above, on the basis of differences in one or more of these factors:—Quantity, quality, locality, individual supplier's views.

All matters under this heading fully protected by copyright.

A

Acacia (see Gum, arabic).
Acenaphthene, m.p. below 92.5 C., dms., works lb. .40 - —
above 92.5 C, dms., works lb. .50 - —
Acetaldehyde, 99%, dms., c.l., works. lb. .11½- .12
l.c.l., works lb. .12 - .13
tanks, works lb. .09½- .10
Acetaldol (see Aldol).
Acetamide, CP, fib, dms lb. .65 .75
tech., fib. dms lb. .38 - .43
Acetanilide, tech., bbls., c.l., dlvd. or frt. equald. lb. .22 - .23½
l.c.l., ton lots lb. .23 - .24½
smaller lots lb. .26 - .27½
USP, bbls., 2,000-lb. lots lb. .50 - —
smaller lots lb. .56 - —
Acetic anhydride, dms., c.l., frt. alld. E lb. .14 - —
l.c.l., frt. alld. E lb. .15 - .15½
tanks, frt. alld. E lb. .12½- —
Acetoacetanilide, bbls., dlvd lb. .67½ - —
fib. dms., c.l., dlvd lb. .66½- —
l.c.l., dlvd lb. .67½- —
Acetoacetorthoanisidide, fib. dms., works, 500 lbs. or more lb. 1.50 - —
smaller lots, same basis lb. 1.75 - —
Acetoacetorthochloranilide, bbls., dlvd lb. 1.15 - —
fib. dms., c.l., works lb. 1.14 - —
l.c.l., works lb. 1.15 - —
Acetoacetorthotoluidide, bbls., dlvd lb. .90 - —
fib. dms., c.l., works lb. .71 - —
l.c.l. lb. .72 - —
Acetone, CP, dms., c.l., dlvd lb. .09 - —
l.c.l., dlvd lb. .09½- .10
tanks, dlvd lb. .07½- —
Methyl (see M).
Acetonitrile, dms., c.l., works lb. .40 - —
l.c.l., works lb. .45 - —
Acetophenetidin, USP, bbls., works, frt. equald lb. 1.10 1.20
Acetophenone, cns., dms lb. 1.30 1.85
tech., l.c.l., dms., works lb. .75 —
Acetoacetoparaphenetidide, d m s., 500 lbs. or more, works. lb. 1.65 - —
smaller lots, same basis lb. 1.90 - —
Acetyl chloride, cbys., works lb. .50 - .60
Acetyltributyl citrate, dms lb. .43 - .45
smaller pkgs lb. .48 - .54
Acetyltriethyl citrate, dms lb. .36 - .38
smaller pkgs lb. .41 - .47
Acid, abietic, dms., c.l., works lb. .07½- —
Acetic, com'l or redist., 28%, bbls. 100 lbs. 4.00 - —
56%, bbls 100 lbs. 7.00 - —
70%, bbls 100 lbs. 8.40 - —
80%, bbls 100 lbs. 9.40 - —
glacial, synthetic, CP, dms., works 100 lbs.13.00 - —
USP, cbys., works 100 lbs.15.50 - —
tech., dms., c.l., works 100 lbs. 9.00 - 9.50
l.c.l., works 100 lbs. 9.50 -10.00
tanks, works 100 lbs. 7.50 - —
Acetic acid price ranges above are for 40 bbls. or more and for smaller lots. Carboys and cases are 50c. per 100 lbs. higher.
Acetic anhydride (see Acetic anhydride above).
Acetylsalicylic, USP, special, bbls., makers, primary distrib., point of ship't, 100-lb. lots lb. .53 - —
standard, fine, cryst., gran., (30-40 mesh) powd. (80 mesh), bbls., same basis. lb. .48 - —
Freight equald, ship't identical quantity over standard routes, from N. Y., Phila., Midland, Mich., Chicago and St. Louis.
Adipic, fib. dms., works lb. .26½- —
Aminoacetic, NF, bbls., frt. adjusted lb. 1.50 1.75
Anthranilic, resub., bbls lb. 2.10 - —
tech., bbls. lb. 1.05 1.10
Arsenous, tech. (see Arsenic, white).
USP, powd., dms., kgs lb. .20 .22
Ascorbic, USP, dms., 500-kilo lots. kilo.24.50 - —
25-50 kilo lots kilo.25.00 - —
10-kilo lots kilo.25.35 - —
5-kilo lots kilo.25.70 - —
bots., kilo lots kilo.26.41 - —
500 grams kilo.27.47 - —
Battery, cbys., c.l., E. works. 100 lbs. 1.60 1.75
l.c.l., E. works 100 lbs. 2.15 2.85
Benzoic, tech., bbls., dms., 100 lbs. or more lb. .43 - —
USP, bbls., dms., 100 lbs. up lb. .54 - —
Betaoxynaphthoic, bbls., works lb. 1.25 1.43
Boric, tech., 99½%, cryst., bgs., c.l., works ton.115.25 - —
ton lots, ex whse., N. Y. or Chi ton.160.00 - —
less ton lots, same basis. ton.165.00 - —
bbls., c.l., works ton.135.25 - —
ton lots, ex whse., N. Y. or Chi ton.180.00 - —
less ton lots, same basis. ton.185.00 - —
bulk, c.l., works ton.111.75 - —
gran., bgs., c.l., works ton.90.25 - —
ton lots, ex whse., N. Y. or Chi ton.135.00 - —
less ton lots, same basis. ton.140.00 - —
bbls, c.l., works ton.110.25 - —
ton lots, ex whse., N. Y. or Chi ton.155.00 - —
less ton lots, same basis. ton 160.00 - —
bulk, c.l., works ton.86.75 - —
powd., bgs., c.l., works ton.95.25 - —
ton lots, ex whse., N. Y. or Chi ton.140.00 - —
Acid, boric, tech., 99½%, powd., less ton lots, same basis ton.145.00 - —
bbls., c.l., works ton.115.25 - —
ton lots, ex whse., N. Y. or Chi ton.160.00 - —
less ton lots, same basis. ton.165.00 - —
bulk, c.l., works ton.91.75 - —
USP $25 per ton higher.
Broener's bbls. lb. 1.34 - 1.45
Butyric, 99%, dms., c.l., works lb. .34½- —
l.c.l., works lb. .35 - —
tankcars, works lb. .33 - —
Cacodylic, bots. lb.12.00 -13.00
Camphoric, natural, dms lb. 6.00 6.75
synth., dms lb. 5.25 - 7.00
Capric, tech., dms lb. .50 .50½
Caprylic, 99%, dms lb. .50 .50½
Castor oil, split, dms lb. .21 .22
Chlorosulphonic, dms., c.l., works. lb. .03 —
l.c.l., works lb. .03½ .04½
tanks, works lb. .02½- —
Chromic, 99½-99¾%, dms., c.l. works lb. .25½ —
l.c.l., works lb. .26 .27
USP, 5 lb. bots. lb. .82 —
Cinnamic, refd., bots lb. 2.50 - 4.00
Citric, anhyd., gran., fine gran., dms., c.l. lb. .26½- —
10,000 lbs., 1 ship't lb .27 - —
smaller lots lb. .27½- —
kgs. lb. .28½- —
Anhydrous citric acid powder, ½c. per lb. higher.
USP, cryst., dms., c.l. lb. .27½- —
10 000 lbs., 1 ship't lb. .28 - —
smaller lots lb .28½- —
kgs. lb. .29½- —
gran., fine gran., dms., c.l. lb. .24½- —
10,000 lbs., 1 ship't lb. .25 - —
smaller lots lb. .25½- —
kgs. lb. .26½- —
USP citric acid powder ½c. per lb. higher.
Cleve's, mixed, bbls lb. .65 .66
Coconut oil, dist., dms lb. .21¼- .22¼
double dist., dms lb. .23¼- .24¼
Corn oil, s.d., dms lb. .10 Nom.
Cottonseed oil, dist., dms lb. .09½- .10½
Cresylic, com., coaltar, high boil 50% (210°-215°), c.l., frt. equald., works gal. 1.11 - 1.16
l.c.l., same basis gal. 1.14 - 1.19
tanks, same basis gal. 1.05 —
low boil, 50% (204°-206°), and special blends, c.l., same basis gal. 1.16 - 1.21
l.c.l., same basis gal. 1.19 - 1.24
tanks, same basis gal. 1.10 —
Acid, cresylic, dom., petroleum, 179°C to 198°C, San Francisco and Los Angeles, tanks gal. 1.00 - —
195° to 213° C, non-ret. dms., c.l., San Francisco and Los Angeles gal. .95½- —
l.c.l., same basis gal. .97½- .99½
tanks, same basis gal. .85 - —
211°C to 236°C, non-ret. dms., c.l., San Francisco and Los Angeles gal. .77 - —
l.c.l., same basis gal. .79 - .81
tanks, same basis gal. .665 - —
237°C to 265°C, non-ret. dms., c.l., San Francisco and Los Angeles gal. .72½- —
l.c.l., same basis gal. .74½- .76½
tanks, same basis gal. .62 - —
Crotonic, bbls., Canadian, works lb .55 —
Dichlorophenoxyacetic, (see "D", 2, 4-D)
Diethylbarbituric (see Barbital).
Diglycolic, bgs., works lb. .22 - —
Ethylhexoic, dms., c.l., works lb. .31 - —
l.c.l., works lb. .31½- —
tanks, works lb. .29½- —
F, bbls., works lb. 1.73 1.78
Folic, bots., fib. ctns., kilo or more gram. 2.00 - —
Formic, 85%, cbys., c.l., works lb. .13 - .13½
l.c.l., works lb. .13½- .14
90%, cbys., c.l., works lb. .13½- .14
l.c.l., works lb. .14 - .14½
Fumaric, tech., bbls., dms lb. .30 .31
Gallic, NF V, bbls., 1,000-lb. lots lb. 1.60 —
smaller lots lb. 1.63 1.65
technical, bbls., 1,000-lb. lots lb. 1.43 —
smaller lots lb. 1.46 1.48
Gamma, bbls. lb. 1.20 1.30
Gluconic, tech., 50%, bots lb. .23 .31
dms. lb. .14 —
kgs. lb. .16 —
Glutamic, laevo, 99%, fiber dms., 100 lb lots, works lb. 2.30 2.40
25 lb. lots lb. 2.45 - —
Glycerophosphoric, 35%, dms., works lb. 2.15 - —
Glycolic (see Acid, hydroxyacetic).
H, 100% basis, bbls., works lb. .73½- —
Hydriodic, 45-47%, cbys lb. 2.69 —
57%, cbys lb. 2.83 2.85
Hydrobromic, medicinal, 48%, cbys., dlvd E lb. .38 —
tech., 48%, cbys., dlvd E lb. .34 .36
34%, cbys., dlvd E lb. .35 .37
Hydrochloric (see Acid, muriatic).
Hydrocyanic, cyls., works lb. 1.00 - —
dilute, NF, 2%, 5-lb. bots lb. .35 - —
Acid, hydrofluoric, anhyd., cyls., works lb. .19 - .19½
tanks, works lb. .16½- —
30%, steel dms., works lb. .08½- .09
70%, steel dms., works lb. .15¾- .16¼
Hydrofluosilicic, 30-35%, bbls lb. .08 - .09
Hydroxyacetic, tech., 70%, bbls., non-return., Phila lb. .084 - —
tanks, Belle, W. Va., 100% basis lb. .085 —
Hypophosphorus, USP, djns lb. .75 - .77
J, bbls., works, 20% basis lb. 2.64 - 2.87
L, bbls., works lb. .80 - .95
Lactic, edible, 50%, bbls., 20 or more lb. .16 - .18
smaller lots lb. .17 - .19
80%, bbls., 20 bbls. or more. lb. .28½- —
plastic grade, 50%, bbls., 20 or more lb. .19¾- —
10 or less lb. .20¾- —
80%, bbls., 5 or less lb. .3370- .3400
tech., 22%, bbls., c.l., works 100 lbs. 5.80 - —
l.c.l., works 100 lbs. 6.20 - —
cbys., works 100 lbs. 6.70 - —
44%, bbls., c.l., works 100 lbs.10.95 - —
l.c.l., bbls., works 100 lbs.11.35 - —
cbys., works 100 lbs.11.85 - —
NF, 85%, cbys lb. .69 - .72
Laurent's, bbls lb. .87 —
Lauric, dist., 85-90%, dms lb. .23 - .28½
60%, dms. lb. .25 - .25½
Linseed oil, reg dist., dms lb. .3180- .3230
water white, dms lb. .3480- .3530
Maleic, powd., dms lb. .30 - .31
Anhydride (see M).
Malic, dms. lb. .47 —
Mandelic, NF, dms., 1,000-lb. lots lb. 1.85 - —
smaller lots lb. 1.90 - 2.10
Mixed, tanks, nitric unit lb. .05 - .06
sulphuric unit lb. .0085 .009
Molybdic, dms., 85%-92%, works lb. .92 .95
Monochloroacetic, purified, flakes, 99%, dms lb. .22½- .23¼
tech., flake, 96-97%, bbls lb. .18 - .19
Muriatic, 18°, cbys., c.l., E. works 100 lbs. 1.65 —
l.c.l., E. works 100 lbs. 2.05 - 2.75
tanks, E. works ton.18.00 - —
20°, cbys., c.l., E. works 100 lbs. 1.90 - —
tanks, E. works ton.20.00 - —
22°, cbys., c.l., E. works 100 lbs. 2.40 - —
tanks, E. works ton.25.00 - —
CP, USP, consumers, cbys., extra, c.l., frt. equald. lb. .07¾- —
l.c.l., same basis lb. .09¼- 09¼
5 pint bottles extra, cs., c.l., frt. equald lb. .12¾- —
t.c.l., same basis lb. .14¼- .15¼
Acid, muriatic, CP, USP, prices to dealers 1½c. per pound less.
Myristic, dist., dms lb. .45 Nom.
Naphthenic, 220-230 acidity, dms., works lb. .15 - —
tanks, works lb. .12 - —
230-240 acidity, dms., works lb. .22 - —
tanks, works lb. .19 - —
Naphthol(1)-4-sulphonic (see Acid, Neville and Winther's)
Naphthol (1)-5-sulphonic see Acid, L).
Naphthol(1)-5-sulphonic,8-amino (see Acid, S).
Naphthol(1)-3,6-disulphonic,8-amino (see Acid, H).
Naphthol(2)-6,8-disulphonic (see Acid, Gamma)
(5)-7-Sulphonic,2-amino (see Acid, J).
Naphtholsulphonic, mixed (see Acid, Cleve's, mixed)
Naphthylamine(1)-5-sulphonic (see Acid, Laurent's).
(2)-6-sulphonic (see Acid, Broener's).
(2)-7-sulphonic (see Acid, F).
(2)-1-sulphonic (see Acid, Tobias).
Neville and Winther's, dms lb. .88 - .91
Nicotinic, USP, dms., works kilo. 8.00 - 8.30
Nicotinic amide (see Nicotinamide).
Nitric, 36° cbys., c.l., E. works.. 100 lbs. 5.00 - —
l.c.l., E. works 100 lbs. 5.40 - 6.10
38°, cbys. c.l., E. works 100 lbs. 5.50 - —
l.c.l., E. works 100 lbs. 5.90 - 6.60
40°, cbys., c.l., E. works 100 lbs. 6.00 - 6.50
l.c.l., E. works 100 lbs. 6.40 - 7.10
42°, cbys., c.l., E. works 100 lbs. 6.50 - 7.00
l.c.l., E. works 100 lbs. 6.90 - 7.60
CP, NF, consumers, cbys., extra, c.l., frt. equald lb. .11¼- —
l.c.l., same basis lb. .13 - .13½
5 pint bottles extra, cs., c.l., frt. equald lb. .15½- —
t.c.l., same basis lb. .17 - .18
Acid, muriatic, CP, USP, prices to dealers 1½c. per pound less.
Octoic (see Acid, ethylhexoic).
Oleic (see Oil, red).
Oleum (see Acid, sulphuric, fuming).
Orthocresotinic, dms., ton lots, works lb. .62 - —
smaller lots, works lb. .64 - —
Oxalic, bbls., c.l., works lb. .14½- —
10,000 lbs., works lb. .14¾- .15
smaller lots, works lb. .15¼- .15¾
Palm oil, white, dist., dms lb. .21¼ .21¾
Para-aminobenzoic, purified, dms., 100 lbs., works lb. 3.75 —
smaller lots, same basis lb. 3.85 4.00
Para-aminosalicylic, dms., 1,000-lb. lots or more lb.14.00 -15.00
smaller lots lb.14.05 -16.00
Paramethyiphenylcinchonic (see Neocinchophen).
Paranitrobenzoic, cns. lb. .87 —
Paratoluidinmetasulphonic, bbls., works lb. .92 .95
Peanut oil, s.d., dms lb. .12¼ Nom.
Perchloric, 60%, cbys., works lb. .58 .62
70-72%, cbys., works lb. .61 .66
Phenylacetic, bots lb. 1.51 1.75
Phenylcinchoninic (see Cinchophen).
Phenylglycollic (see Acid, mandelic).

Abbreviations

Used in OPD Market Quotations

alld.	allowed	distr.	distributor	neut.	neutral.
ammo.	ammonia	djns.	demijohns	NF	National Formulary
amorph.	amorphous	dlvd.	delivered		
anhyd.	anhydrous	dms.	drums	nom.	nominal
a.p.a.	available phosphoric acid	dom.	domestic	No.	number
		E.	east	ord.	ordinary
artif.	artificial	e.p.	end point	oz.	ounce
ASTM.	American Society for Testing Materials	equald.	equalized	Pac.	Pacific
		F.	fahrenheit	pf.	proof
Be.	Baume	ferment.	fermentation	phos.	phosphate
bgs.	bags	ffa.	free fatty acid	photo.	photographic
bbls.	barrels	ffc.	free from chlorine	pkgs.	packages
bls.	bales			powd.	powdered
bots.	bottles	fib.	fiber	precip.	precipitated
b.p.	boiling point	f.o.b.	free on board	prod.	producer
b.p.l.	bone phosphate of lime	F.P.A.	free of prussic acid	pt.	point
				pulv.	pulverized
b.r.	boiling range	frt.	freight	purif.	purified
bxs.	boxes	fus.	fused	redist.	redistilled
C.	centigrade	gal.	gallon	refd.	refined
cbys.	carboys	gran.	granular	refy.	refinery
CD	completely denatured	grd.	ground	reg.	regular
				resub.	resublimed
c.i.f.	cost, insurance, freight	i.&a.	iron and aluminum	ret.	returnable
				SD	specially denatured
cks.	casks	i.b.p.	initial boiling point	s.d	single distilled
c.l.	car lots			S. E.	southeast
cns.	cans	imp.	imported	secs.	seconds
col.	color	incl.	included	s.g.	specific gravity
com'l	commercial	indust.	industrial	ship't	shipment
conc.	concentrated	kgs.	kegs	solut.	solution
CP	chemically pure	lacq.	lacquer	s.u.	standard unit
cps.	centipoises	lb.	pound	synth.	synthetic
cryst.	crystal	l.c.l.	less than car lots	tech.	technical
cs.	cases	liq.	liquid	USP	U. S. Pharmacopoeia
ctns.	cartons	m.a.p.	mixed aniline point	vis.	viscosity
cyls.	cylinders			VM&P	varnish makers & painters
dbl.	double	min.	minimum		
denat.	denatured	m.p.	melting point	W	west
dest.-dist.	destructive-distilled	N.	nitrogen	w.w.	water white
dextro.	dextrorotatory	nat.	natural	whse.	warehouse
dist.	distilled				

A unit-ton is 2,000 pounds of 1 percent of the basic constituent or other standard of the material. The percentage figure of the basic constituent multiplied by the price figure shown, gives the price of 2,000 pounds of the material

Acid, Phosphoric—Alphanitronaphthalene

Acid, phosphoric, food grade, 75%, chys., c.l., works, frt. equald 100 lbs. 6.50 - —
l.c.l., works, frt. alld. 100 lbs. 7.50 - —
tanks, works, frt. equald 100 lbs. 4.50 - —
NF, 85%, chys., c.l. lb. .10½- —
For shipments in chys., add handling charges.
Picramic, hgs. lb. .65 - .70
Picric, tech., bbls. lb. .32 - .33
NF, bbls. lb. .42 - —
Propionic, nat., dms., works lb. .18 - —
tanks, works lb. .17 - —
synth., pure, dms., works lb. .22 - —
tanks, works lb. .21 - —
Pyrogallic, tech., bbls. lb. No prices.
NF, cryst., dms lb. 2.95 - 3.18
resub., dms lb. 3.45 3.60
Pyroligneous, bbls., incl., l.c.l., ex whse gal. .43 - —
Ricinoleate (see Acid, castor oil, split).
S, bbls., works lb. 2.97 - 3.00
Salicylic, tech., bbls., c.l. lb. .31 - —
smaller lots lb. .38 - —
USP, cryst., bbls., c.l. lb. .40 - —
smaller lots lb. .50 - —
powder, bbls., c.l. lb. .45 - —
smaller lots lb. .55 - —
Sebacic, purif., dms., c.l., works. lb. .52 - —
l.c.l., works lb. .54 - .58
Soybean oil, single dist., dms lb. .1160- .1325
double dist., dms lb. .1260- .1425
Stearic, double pressed, bgs lb. .13½- .14½
single pressed, bgs lb. .13 - .14
triple pressed, bgs lb. .15¾- .16¾
Succinic, bbls., cryst., purified, works lb. .90 - —
tech., bbls., works lb. .65 - .75
Sulphanilic, tech., dms., works lb. .17 - —
Sulphuric, 60° Be, chys., c.l., E. works 100 lbs. 1.40 - —
l.c.l., E. works 100 lbs. 1.80 - 2.50
tanks, E. works ton. 13.75 - —
66° Be, chys., c.l., E. works 100 lbs. 1.65 - —
l.c.l., E. works 100 lbs. 2.05 - 2.75
tanks, E. works ton. 17.00 - —
98%, tanks, E. works ton. 18.00 - —
CP, NF, consumers, chys., extra, c.l., works, frt. equald lb. .07¾- —
l.c.l., same basis lb. .09¼- .09¾
5 pt. bottles extra, cs., c.l., works, frt. equald lb. .11¼- —
l.c.l., same basis lb. .12¾- .13¾
fuming, 20%, tanks, E works. ton. 19.00 - —
Tallow, dist., dms lb. .09½- .10½
Tannic, tech., 60-62%, dms lb. .68 - .69
70-72%, dms. lb. .80 - .85
75-76%, dms. lb. .86 - .90
USP, fluffy, bbls., 1,000-lb. lots. lb. 1.45 - —
smaller lots lb. 1.47 - 1.55
powder, bbls., 1,000-lb. lots lb. 1.35 - —
smaller lots lb. 1.30 - 1.50
Tartaric, USP, dom., 230, 250 lb. dms., 10,000 lbs., 1 ship't. lb. .34½- —
smaller lots lb. .35 - —
100-lb. dms lb. .36 - —
small, dms lb. .38 - .40
imported, kgs lb. .34 - .36
Thioglycolic, refined, bbls., chys., basis 100% lb. 1.60 - 1.80
tech., bbls., chys., basis 100% lb. 1.40 - —
Tobias, bbls. lb. .65 - —
Trichloroacetic, bots. lb. 2.00 - 2.50
Toluenesulphonic, dms., works, l.c.l. lb. .20 - —
c.l., tanks lb. .18½- —
Tungstic, tech., kgs., works lb. 2.20 - 2.40
Aconite leaves, bls. lb. .55 - .60
Root, bbls. lb. .70 - .75
Aconitine, amorph., mild, bots. oz. 27.50 - 32.50
cryst., potent, bots. oz. 85.00 - —
Acrylonitrile, dms., c.l., works lb. .36½- —
l.c.l., works lb. .37 - .55
tanks, works lb. .35 - —
Adeps lanae (see Lanolin)
Adonis vernalis herb, bls lb. .35 - .40
Agar, USP, Kobe, No. 1 strip lb. 2.60 - 2.80
Agaric, white, bls lb. 1.50 - 1.75
Agrimony herb, bls lb. .35 - .40
Alanine, dextro-laevo, dms., works, lb. 8.50 - 11.00
Albumen (egg), edible, flake, bbls. lb. 2.26 - 2.30
powd., bbls. lb. 2.31 - 2.35
tech., cryst., bbls lb. 1.10 - 1.20
Albumin, blood, dark (see Blood, dried, soluble)
light, dms., l.c.l. lb. .70 - .75
Egg (see Albumen).
Alcohol, allyl, dms., c.l., dlvd lb. .31½- —
works lb. .32½- —
l.c.l., dlvd lb. .32½- —
works lb. .33 - —
tanks, dlvd lb. .30 - —
works lb. .31 - —
Amyl, ex pentane, dms., c.l., frt. alld. E. of Miss lb. .18 - —
l.c.l., frt. alld. E. of Miss lb. .19 - —
tanks, frt. alld. E. of Miss lb. .17 - —
(see also Fusel oil, ref.)
Alcohol, amyl, fermentation, refined, 126-132°C, dms., c.l., dlvd lb. .33½- —
l.c.l., dlvd lb. .34½- —
tanks, dlvd lb. .32 - —
128-132°C, dms., l.c.l., dlvd. lb. .36 - —
ACS grade, dms., l.c.l., dlvd lb. .42 —
Benzyl, dms. lb. 60 .88
tech., dms., works, frt. equald. lb. .45 .50
Butyl, normal, ferment, Ill., Ind. prod., dms., c.l., frt. alld. lb. 15½ —
l.c.l., frt. alld. E lb. .16½- —
tanks, frt. alld. E lb. .14 - —
tankwagon, frt. alld. E. lb. .14½- —
other production, dms., c.l., frt. alld. E lb. .15½- —
l.c.l., frt. alld. E lb. .16½- —
tanks, frt. alld. E lb. .14 - —
synthetic, normal, dms., c.l. frt. alld. E lb. .15½- —
l.c.l., frt. alld. E lb. .16½- —
tanks, frt. alld. E lb. .14 - —

Normal synthetic butyl alcohol prices in West 1c. per lb. higher.

secondary, dms., c.l., dlvd lb. .11½- —
l.c.l., dlvd lb. .12 - —
tanks, dlvd lb. .10 - —
tertiary, dms., c.l. lb. .13½- —
l.c.l., dms. lb. .14 - —
tanks lb. .12 - —
Capryl, dms., c.l., works lb. .26 - —
l.c.l. works lb. .27 - —
tanks, works lb. .24½- —
Cetyl, dom., CP., fiber ctns., 1,000 lbs. lb. 1.50 - —
smaller lots lb. 1.55 - —
Cinnamic, bots lb. 2.75 - 3.35
Denatured, CD12, CD13, CD14, dms., dlvd. E. of Miss. R. gal. .42½- —
l.c.l., dlvd. E. of Miss. R. gal. .46½- .51¼
tanks, dlvd. E. of Miss. R gal. .32½- —

Tankcar sales require written authorization by Alcohol Tax Unit.

SD1, 190 pf., dms., c.l., dlvd. E. of Miss. R. gal. .41½- —
l.c.l., same basis gal. .45½- .50¼
tanks, same basis gal. .31½- —
SD2B, dms., c.l., E. of Miss. R. gal. .40 - —
l.c.l., same basis gal. .44 - .49
tanks, same basis gal. .30 - —
SD23H, dms., c.l., dlvd. E. of Miss. R. gal. .43 - —
l.c.l., same basis gal. .47 - .52
tanks, same basis gal. .33 - —
SD29, denatured, with acetaldehyde, dms., c.l., dlvd. E. of Miss. R gal. .40½- —
l.c.l., same basis gal. .44½- .49½
tanks, same basis fal. .30½- —

When any of the several SD29 denaturants is supplied by the purchaser, the prices are the same as those of SD21 plus 1½c. per gal. denaturing charge.

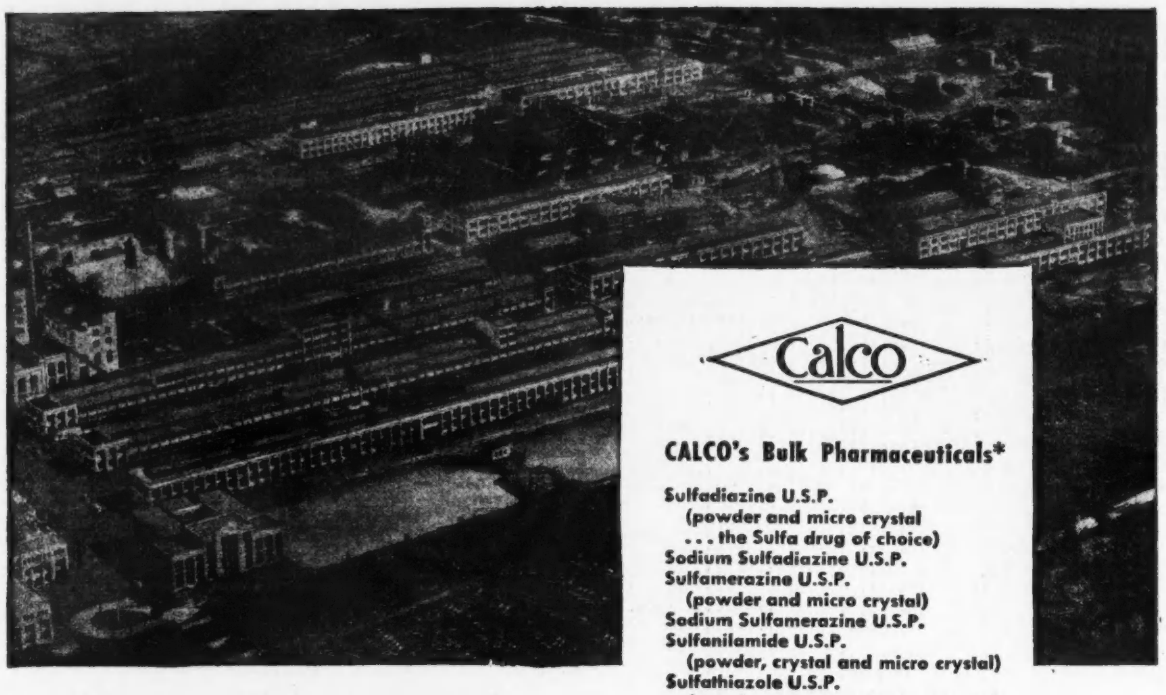
Proprietary solvent, dms., c.l., dlvd. E. Miss. R gal. .42½- —
l.c.l., same basis gal. .46½- .51¼
tanks, same basis gal. .32½- —

Tankcar sales require written authorization by Alcohol Tax Unit.

Special solvent (see Alcohol, denat., proprietary).
Diacetone, acetone free, dms., c.l., dlvd lb. .13½- .16½
l.c.l., dlvd lb. .14 - .17½
tanks, dlvd lb. .12 - .15
tech., dms., c.l., dlvd lb. .14 - .15½
l.c.l., dlvd lb. .16 - .16½
tanks, dlvd lb. .12½- .14
Ethyl, 190 pf., USP, tax paid, dms., c.l., dlvd. E. Miss. R gal. 17.49 - —
l.c.l., same basis gal. 17.53 - 17.58
tanks, same basis gal. 17.39 - —
tax free, dms., c.l., dlvd. E. Miss. R gal. .39 - —
l.c.l., same basis gal. .43 - .48
tanks, same basis gal. .29 - —
absolute, 200 pf., tax paid, dms., c.l., same basis gal. 18.44 - —
l.c.l., same basis gal. 18.48 - 18.53
tanks, same basis gal. 18.34 - —
Ethylhexyl, dms., c.l., works lb. .30 - —
l.c.l., same basis lb. .30½- —
tanks, same basis lb. .28½- —
Furfuryl, tech., cns., works lb. .30 - —
dms., c.l., works lb. .21½- —
l.c.l., works lb. .23 - —
tanks, works lb. .18 - —
Isoamyl (see Alcohol, amyl, refined, fermentation).
Iso-octyl, dms., c.l., works lb. .29½- —
l.c.l., works lb. .29¾- —
tanks, works lb. .27¾- —
Isopropyl, refd., 91%, dms. incl., c.l., dlvd. gal. .38 - —
l.c.l., dlvd gal. .41 - —
tanks, dlvd gal. .28 - —
95%, dms. incl., c.l., dlvd. gal. .39½- —
l.c.l., dlvd gal. .42½- —
tanks, dlvd gal. .29½- —
NF, 99%, dms. incl., c.l., dlvd. gal. .41 - —
l.c.l., dlvd gal. .44 - —
tanks, dlvd gal. .31 - —
Methyl (see Methanol).
Methylamyl (see Carbinol, methylisobutyl).
Octyl, perfumer's grade, bots. lb. 2.15 - 2.25
Pantothenyl (see Panthenol).
Phenylethyl, cns. lb. 1.40 - 1.70
Polyvinyl, type A, fiber-pack, Niagara Falls lb. .65 - .70
type B, fiber-pack, same basis lb. .60 - .68
Propyl, normal, dms., c.l., dlvd. lb. .09½- —
works lb. .08 - —
l.c.l., dlvd lb. .10 - —
works lb. .08½- —
tanks, dlvd lb. .08 - —
works lb. .06½- —
Salicyl (see Saligenin).
Tetrahydrofurfuryl, cns., Cedar Rapids, Ia. lb. .47 - —
dms., c.l., Waverly, N. Y. lb. .40 - —
l.c.l., same basis lb. .44 - —
tanks, Niagara Falls, N. Y. lb. .36 - —
Aldol, 95%, dms., works lb. .15 - .16
denaturing grade, dms. gal. 1.33 - 1.48
Aletris root, bgs. lb. 1.50 - 1.60
Algin, bbls., fib. dms lb. .76 - 1.00
Alizarin (see Red, alizarin).
Alkanet root, bgs. lb. .45 - .50
Allspice, Jamaica (see Pimento).
Mexican, bgs lb. .14 - .14½
Allyl bromide, cboys., 5,000 lbs., works lb. .99 - —
smaller lots, works lb. 1.05 - 1.10
Chloride, dms., c.l., dlvd lb. .16½- —
l.c.l., dlvd. lb. .17 - —
tanks, dlvd. lb. .15 - —
Aloe, cape, cs lb. .24 - .25
Curacao, kgs lb. .35 - .36
Socotrine, kgs lb. .35 - .36
Aloin, USP, bbls., dms., kgs lb. 3.75 - 4.05
Alphacellulose, bgs., c.l., works lb. .04 - .15
Alphanaphthol, bbls lb. .70 - —
Alphanaphthylamine, bbls lb. .41 - .42
Alphanaphthylthiourea, 93-98%, fib. dms., works, frt. alld lb. 4.00 - 4.40
Alphanitronaphthalene, bbls lb. .37 - —

PARA AMINOSALICYLIC ACID — NEW DRUG

FOR CLINICAL TRIAL



Para Aminosalicylic Acid (4-aminosalicylic acid; 2-hydroxy, 4-aminobenzoic acid) inhibits the growth of the tubercle bacillus at low concentrations in vitro. The results of preliminary studies of its therapeutic effectiveness have been promising. The drug is now undergoing extensive clinical investigation. There is reason to hope that Para Aminosalicylic Acid may prove to be a valuable agent in the treatment of human tuberculosis, either alone or in conjunction with other drugs such as streptomycin.

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Sodium Sulfapyridine
Sulfabenzamide
Sodium Sulfabenzamide
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Choline Chloride
Choline Dihydrogen Citrate
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Alphapicoline, ret. dms., c.l., works, frt. equald lb. .27 - .30
l.c.l., works, frt. equald lb. .29½ - .30
Alphapinene, tanks, South, works gal. .47 - —
Alphaterpineol, dms., l.c.l., dlvd E. lb. .18 - —
Alphatocopherol, bots. kilo.450.00 - —
Acetate, bots. kilo.450.00 - —
Althea root, NF, peeled, bls lb. .30 - .40
Alum, ammonia, gran., bbls., works, 100 lbs. 3.80 - —
lump, bbls., works 100 lbs. 4.05 - —
powd., bbls., works 100 lbs. 4.20 - —
USP, burnt, bbls. lb. .20 - .21
hydrous, bbls. lb. .07¾ - .08
Potash, gran., bbls., works 100 lbs. 4.05 - —
lump, bbls., works 100 lbs. 4.25 - —
powd., bbls., works 100 lbs. 4.45 - —
USP, hydrous, bbls. lb. .07¾ - .08
Potash-chrome, bbls lb. 12½ - .15
Soda, bbls., c.l., works 100 lbs. 3.25 - —
l.c.l., dlvd 100 lbs. 4.25 - 5.00
Alumina, calcined, bgs., c.l., works lb. .0365 - —
l.c.l., works lb. .05¼ - .07¼
crystalline (see Aluminum oxide).
Aluminum acetate, basic solution, 24%, bbls., l.c.l., works lb. .11 - —
20%, bbls., l.c.l., works lb. .10 - —
Chloride, anhyd., com'l, dms., c.l., dlvd lb. .10 - —
l.c.l., dlvd. lb. .10½ - —
cryst., com'l, dms., c.l., works lb. .0650 - —
l.c.l., works lb. .0690 - —
NF, gran., dms., works lb. .27 - .28
solution, 32°, cbys., c.l., works lb. .03¼ - —
l.c.l., works lb. .04 - —
Aluminum fluoride, tech., anhyd., bbls., c.l., frt. equald lb. .10 - —
l.c.l., frt. alld lb. .11 - .13
Formate, basic solution, cbys., c.l lb. .09½ - —
l.c.l., works lb. .10 - —
Hydrate, heavy, bgs., c.l., frt. equald ton.50.00 -54.00
l.c.l., works ton.72.00 -86.00
light, bgs., dlvd lb .17 - —
Hydroxide, gel, pharmaceutical, 14-15% Al_2O_3, fib. dms., works lb. 21¼ - —
contract, works lb. .20¼ - —
9-9½% Al_2O_3, fib. dms., works lb. .18¼ - —
contract, works lb. .17¼ - —
dried, USP XII, fib. dms., works. lb. 79½ - —
contract, works lb. 76½ - —
powder, tech. (see Aluminum hydrate).
Laurate, precip., bbls lb. .42 - —
Linoleate, solid, dms., frt. alld. lb. .48 - —
Metal, 98-99%, ingots, 10,000 lbs. lb. .27 - —
pigs, 10,000 lbs lb. .16 - —
Naphthenate, liq., 1.7%, frt alld, lb. .24½ - .25
Oleate, dms., contract lb. .43¾ - —
Oxide, amorphous (see Alumina, calcined).
crystalline, flour, classified, 8-240 mesh, dms., frt. alld lb. .14 - .15
kgs., ton, frt. alld lb. .12½ - —
smaller lots, frt. alld lb. .13 - .15
280-400 mesh, dms., frt. alld lb. .32 - .33
kgs., frt. alld lb. .31 - —
Aluminum oxide, crystalline, flour, classified, 500 mesh, dms., frt. alld lb. .35 - .37
kgs., frt. alld lb. .34 - —
600 mesh, dms., frt. alld lb. .51 - .53
kgs., frt. alld lb. .50 - —
optical, floated, kgs., dlvd lb. .36 - .36
unclassified, dms., frt. alld. lb. .16 - .17
kgs., frt. alld lb. .15 - —
high-purity, alpha or gamma, ultrafine, dms., works lb.13.50 - —
jars, works lb.15.00 -17.00
Aluminum oxide flour prices W of Denver ¾c. per lb. higher.
Paste, lining, extra fine, dms lb. .58 - —
standard, dms lb. .39½ - —
Powder, lining, extra fine, dms lb. .96 - —
standard, dms lb. .64½ - —
rubber comp., dms lb. .43½ - —
unpolished, standard, dms lb. .44½ - —
varnish, standard, dms lb. .49 - —
Aluminum powder and paste prices are f.o.b. shipping point. Add 1c. per lb. for 100-lb. drm., 1½c. per lb. for 50-lb drm., 3c. per lb. for 10-lb. can, and 5c. to 12c. per lb. for smaller containers. Deduct 1c. per lb. for single shipment of 400 to 1,499 lbs., 2c. for 1,500 to 4,999 lbs., 3c. for 5,000 to 29,999 lbs., and 4c. for 30,000 lbs. or more. Where destination is within the continental U. S., a deduction equivalent to the lowest available common carrier transportation rate will be made from seller's invoice on orders of 200 lbs. or over.
Resinate, precip., dms., frt. alld. lb. .24 - —
Aluminum stearate, dibasic, ctns., c.l lb. .30 - —
l.c.l. lb. .31 - —
monobasic, ctns., c.l. lb. .30 - —
l.c.l. lb. .31 - —
tribasic, ctns., c.l. lb. .30 - —
l.c.l. lb. .31 - —
Sulphate, com'l, bgs., c.l., works, equald 100 lbs. 1.50 - —
l.c.l., same basis 100 lbs. 1.90 - —
iron-free, bgs., c.l., works, frt. equald 100 lbs. 2.75 - —
l.c.l., works 100 lbs. 3.15 - —
NF, gran., dms., works lb. .27 - .28
powd., dms., works lb. .32 - .33
Trihydrate, heavy (see Aluminum hydrate).
Ambergris, gray, tins oz. 8.50 -12.00
Aminoazotoluene, bbls lb. .85 - —
Aminomethylpropanol, cns., dms., works lb. .50 - .60
Aminoethylethanolamine dms., c.l., works lb. .51½ - —
l.c.l., works lb. .52 - —
tanks, works lb. .50 - —
Aminophylline, USP, bots., kgs lb. 6.00 - —
Aminopyrine, USP, bots., dms lb. 6.00 - 6.15
Ammonia, anhydrous, fertilizer, tanks, works ton.74.00 -75.00
pure, cyls., extra lb. .17 - .21½
refrigeration, tanks, works ton.77.50 - —
Aqua (29.4% NH_3), dms., c.l., works 100 lbs. 3.10 - —
l.c.l., works 100 lbs. 3.50 - —
tanks, works, anhyd. basis ton.80.00 -81.00
Ammoniac gum (see Gum, ammoniac)
Sal, gray, bgs., c.l., works, frt. equald 100 lbs. 6.55 - —
l.c.l., same basis 100 lbs. 6.95 - —
white, gran., bgs., c.l., works 100 lbs. 4.75 - —
l.c.l., works 100 lbs. 6.25 - —
Ammoniacal liquor, tankcars, works. ton.80.00 -81.00
Ammonium acetate, purified, dms lb. .39 - .40
reagent, jars lb. .61 - .63
Benzoate, USP, dms., kgs., 4,000 lbs., frt. alld lb. .80 - —
smaller lots, frt. alld lb. .81 - 1.08
Biborate, bbls., c.l., works ton.302.00 - —
ton lots, works ton.355.50 - —
less ton lots, works ton.360.50 - —
Bicarbonate, dms., works, c.l lb. .05½ - —
l.c.l., works, dms lb. .06 - —
Bichromate, bbls., works lb. .26 - .30
Bifluoride, dms., dlvd lb. .18 - .18¼
Bromide, gran., NF, bbls lb. .36 - .37
dms. lb. .37 - .40
powdered ammonia bromide 10c. per lb. higher.
Carbonate, USP, lump, powd., dms. lb. .18½ - .22
Chloride, tech. (see Ammoniac, salt).
USP, gran., bbls., dms lb. .18 - .19
Citrate, dibasic, bbls lb. .75 - —
dms. lb. .80 - .85
Fluoride (see Bifluoride).
Hydroxide (see Ammonia aqua)
Hypophosphite, NF, dms lb. 2.40 - —
Iodide, NF, jars lb. 3.96 - 4.00
Linoleate, plastic, 80%, dms., works lb. .40½ - —
kgs., works lb. .42½ - —
25% dms., frt. alld lb. .21½ - —
tech., bbls., works lb. .37 - —
dms., works lb. .39 - —
Molybdate, metal grade, kgs lb. .90 - —
chemical grade, bbls., kgs lb. .85 - —
A.C.S., grade, dms lb. .88 - —
Nitrate, fertilizer grade, Canadian, 32.5% N, bgs., c.l., shipping point ton.63.00 - —
dom., bgs., western works ton.58.00 -59.00
Nitrate-dolomite, 20.5% N, bgs., Hopewell, Va ton.46.00 - —
Oleate, dms. lb. .30¾ - —
Oxalate, fine gran., dms lb. .25 - .29
dms., 100 lbs., lots lb. .27 - .31
Pentaborate, gran., bbls., c.l., works ton.212.00 - —
ton lots, works ton.265.50 - —
less ton lots, works ton.270.50 - —
Ammonia pentaborate powder, $10 per ton higher.
Perchlorate, kgs., works lb. .50 - .75
Persulphate, kgs lb. .25½ - .28¼
Phosphate, com'l, bgs., c.l., works. lb. .08 - —
l.c.l., works lb. .08½ - —
dibasic, NF V, bbls., dms lb. .40 - —
tech., bgs., c.l., works lb. .08 - —
l.c.l., works lb. .08½ - —
Salicylate, NF, dms., kgs lb. 1.25 - 1.28
Silicofluoride, dms., works lb. .12 - .13
Stearate, 28%, dms lb. .21 - .31
paste, dms lb. .06½ - —
Sulphamate, bbls., dms., works lb. .18 - .20
Sulphate, bulk, producing ovens ton.45.00 -50.00
Sulphide, liquid, 40-45% basis, 100%, dms., c.l., works. lb. .10½ - —
l.c.l., works lb. .15½ - —
tanks, dlvd. or frt. alld. lb. .09 - —
Sulphocyanide, tech. (see Ammonium thiocyanate).
Thiocyanate tech., bbls., c.l., works lb. .15 - —
l.c.l., works lb. .16 - .19
Thioglycollate, highly purified, 100% basis, cbys. lb. 1.70 - 2.25
commercial, same basis lb. 1.40 - 1.95
Thiosulphate, jars lb. .32 - .36
Amphetamine hydrochloride, bots. lb.45.00 -46.00
Phosphate, bots. lb.45.00 -46.00
Amyl acetate, ex fusel oil, tech. dms., c.l., dlvd. lb. .19½ - —
l.c.l., dlvd lb. .20½ - —
tanks, dlvd lb. .18½ - —
ex pentane, dms., c.l., frt. alld, E. of Miss. R. lb. .19½ - —
l.c.l., same basis lb. .20½ - —
tanks, same basis lb. .18½ - —
Alcohol (see Alcohol, amyl).
Butyrate, dms lb. .90 - 1.00
Chloride, mixed, tech., dms., c.l., works lb. .07 - —
l.c.l., works lb. .08 - —
tanks, works lb. .06 - —
Ether (see Ether, amyl).
Mercaptan, dms., works lb. 1.10 - —
Nitrite, USP, bots lb. 1.75 - 1.83
Salicylate, cns., dms lb. .76 - .81
Anethol, com l, dms., works lb. .50 - —
NF, cns., dms lb. .77 - .82
Angelica root, dom., bls lb. .70 - .80
imported, bls. lb. .98 - 1.00
Angostura bark, bls lb. .48 - .50
Anilin oil, dms., c.l., works, frt. alld lb. .16 - —
l.c.l., works, frt. alld lb. .17 - —
tanks, works, frt. alld lb. .15 - —
Salt, dms., works lb. .26 - —
Anise, Argentine, bgs lb. No stocks.
Chinese, star lb. .12½ - .13
Cyprus, bgs lb. .20 - .20½
Mexican, bgs lb. .14½ - .15
Syrian, bgs. lb. .15 - .15½
Anisic aldehyde, bots., dms lb. 2.05 - 2.20
Annatto paste, bxs lb. .34 - .37
Seed, bgs lb. .20 - .21
Anthracene, 80-85%, bbls., works lb. .60 - .86
80%, bbls., works lb. .81 - 1.00
Anthraquinone, 99.5%, bbls lb. .85 - —
Antimony butter (see Antimony chloride).
Chloride, solut., cbys lb. .29 - .30
Metal, bulk, c.l., mines lb. .38½ - —
Oxide, ceramic grade, bgs., c.l., dlvd lb. .32 - .34
l.c.l., dlvd lb. .33 - .35
paint grade, bgs., c.l., works. lb. .35¾ - .36
l.c.l., works lb. .36¾ - .37

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Antimony salt, 65%, bgs., c.l., dlvd. E. of Miss ..... lb. No stocks.
Sulphide, 62-64%, bbls., c.l., dlvd. ..... lb. .25 - —
l.c.l., dlvd ..... lb. .27 - —
Antimony-potassium tartrate (see Tartar emetic).
Antipyrene, USP, dms ..... lb. 2.35 - 2.45
Apomorphine, USP, bots. ..... oz. 23.20 - 23.70
Archil extract, bbls ..... lb. No stocks.
Areca nuts, powd., bbls ..... lb. .22 .25
Arecoline hydrobromide, NF, bots. ..... oz. 6.10 - 6.75
Arginine hydrochloride, laevo kilo. 140.00 - 150.00
Argols, min. 70%, bgs., shipment ports, per 100 kilos (100% purity) 18.00 - 18.50
Arnica, flowers, bls ..... lb. .45 .90
root, bls. ..... lb. 1.45 —
Arrowroot, powd., bgs ..... lb. .13 .16
Arsenic, metal, lump, bbls., prompt shipt lb. .80 .90
Sulphide, yellow, bbls lb. No stocks.
Trioxide (see Acid, arsenous).
White, powd., bbls., c.l., dlvd. lb. .06 —
l.c.l., dlvd ..... lb. .06¾- .07
Asafetida, cs. ..... lb. .35 .36
powd., bbls., dms ..... lb. .50 .53
Asbestine (see Talc, fibrous, N. Y.).
Asbestos fiber, 5D and 5K, bgs., c.l. (20 tons), Canadian mines ..... ton. 88.00 - —
5R, bgs., c.l. (20 tons), same basis ..... ton. 79.00 - —
6D, bgs., c.l. (30 tons), same basis ..... ton. 59.00 - —
7D, bgs., c.l. (30 tons), same basis ..... ton. 52.50 - —
7F, bgs., c.l. (30 tons), same basis ..... ton. 49.50 - —
7K, bgs., c.l. (30 tons), same basis ..... ton. 35.50 - —
7M, bgs., c.l. (30 tons), same basis ..... ton. 31.00 - —
7R, bgs., c.l. (30 tons), same basis ..... ton. 30.00 - —
7RF, bgs., c.l., same basis ..... ton. 31.00 - —
7T, bgs., c.l., same basis ..... ton. 26.50 - —
7TF, bgs., c.l., same basis ..... ton. 31.00 - —
Asphaltum, cut-back, tanks, tank wagon, refinery ..... gal. .09½- —
Emulsion, tanks, tank wagon, refinery ..... gal. .09½- .10
Gilsonite, brilliant black, selects 270°-295° F. fusing pt., bgs., f.o.b. Colo. mines ..... ton. 36.50 - —
seconds, 300°-390° F. fusing point, not uniform, bgs., Colo. mines ..... ton. 31.00 - —
jet, bgs., ton lots, gross weight, Colo. mines ..... ton. 36.50 - —
Manjak, No. 10, crude, dms., works ..... lb. .06½- —
process form, bgs., works ..... lb. .05¾- .13
Steam-rfd., less than 80 penetration., tanks, tankwagon, refinery ..... ton. 23.00 - —
80-300 penetration, tanks, tankwagon, refinery ..... ton. 22.00 - —
Atropine, USP, bots. ..... oz. 13.50 - 15.00
Sulphate, USP, bots. ..... oz. 10.35 - 12.00

B

Bacitracin, bulk, unlabeled, topical, 2,000 units ..... vial. .40 - —
10,000 units ..... vial. .78 - —
50,000 units ..... vial. 2.86 - —
Balm of Gilead buds, dried, bgs ..... lb. 1.50 - 1.75
Barbasco root (see Cube root).
Barberry root bark, bgs ..... lb. .63 - .70
tree bark, bgs ..... lb. .53 - .55
Barbital, USP, dms. ..... lb. 4.50 - —
Sodium, USP, dms. ..... lb. 4.75 - —
Barium carbonate, precip., bgs., 10 tons and up, works ..... ton. 72.50 - 80.00
smaller lots, works ..... ton. 82.50 - 90.00
Chlorate, kgs., works. ..... lb. .25½- .31
Chloride, NF, cryst., dms ..... lb. .17 - .18
tech., bgs., c.l., works, frt. equald. ..... ton. 90.00 - —
l.c.l., works. ..... ton. 100.00 - —
Chromate, bgs., frt. equald ..... lb. .31½- .32
Dioxide, dms., c.l., works ..... lb. .12 - —
l.c.l., works ..... lb. .12 - —
Hydrate, crystals, bgs. ..... lb. .09 - .09¼
Hydroxide, anhyd., bbls., works lb. .19 - —
Iodide, bots. ..... lb. 5.12 - —
Monoxide (see Oxide).
Nitrate, bbls., c.l., works ..... lb. .11½- —
l.c.l., works ..... lb. .13 - —
Oxide, grd., dms., c.l., works ..... lb. .11 - —
l.c.l., works ..... lb. .11½- —
Peroxide (see Dioxide).
Stearate, ctns., c.l. ..... lb. .34 - —
smaller lots ..... lb. .35 - .36
Sulphate, tech. (see Barytes and Blanc fixe).
X-ray, bbls ..... lb. .12½- .13
Sulphide, dms., c.l., works ..... ton. 55.00 - —
l.c.l., works ..... ton. 70.00 - —
Barium-potassium chromate, dms., c.l., frt. alld. ..... lb. .20 - —
l.c.l., works ..... lb. .21 - —
Baryte ore, approx. 94% $BaSO_4$, bulk, mines ..... ton. 9.40 - 12.50
Barytes, water-grd., paper bgs., c.l., St. Louis ..... ton. 33.05 - —
l.c.l., same basis ..... ton. 36.85 - —
ex whse., N. Y. ..... ton. 49.65 - —
Southern off-color, bgs., mines ton. 19.00 - —
95.75%, bgs., mines ..... ton. 20.00 - —
Barberry bark, bgs. ..... lb. .12 - .13
Bay leaves (see Laurel leaves).
Belladonna leaf, bls ..... lb. .85 - 1.10
Root, bls ..... lb. .45 - .50
Bauxite, bulk, mines ..... ton. 8.50 - 10.00
Bentonite, 200 mesh, bgs., works ton. 11.00 - —
Benzaldehyde, NF, dms. ..... lb. .68 - .90
tech., cbys., dms. ..... lb. .45 - .55
Benzal chloride, cbys., works ..... lb. .19 - .25
Benzene (see Benzol).
Hexachloride, tech., 11% gamma, bgs., dms., c.l., works ..... lb. .27½- —
l.c.l., works ..... lb. .29¾- —
dust, dry, 50%, 6% gamma, distributors, dms., c.l., dlvd. ..... lb. .13 - —
l.c.l., dlvd ..... lb. .16 - —
wet, 50%, 6% gamma, distributors, dms., c.l., dlvd ..... lb. .16½- —
l.c.l. ..... lb. .17½- —
Benzidin base, bbls ..... lb. 1.02 - —
Benzocaine, cns ..... lb. 2.25 - 3.35
Benzol (benzene), pure, nitration, tanks, works, Bethlehem, Pa., Dangerfield, Tex., Lackawanna, N. Y., Philadelphia, Pa., Sparrows Point, Md., St. Louis, Mo., Syracuse, N. Y., Wyandotte, Mich ..... gal. .21 - —
Birmingham, Ala., Chicago district, Cleveland district, Johnstown, Pa., Minequa, Colo., Pittsburgh district, Terre Haute, Ind., Woodward, Ala., Youngstown, Ohio. ..... gal. .20 - —
Benzophenone, dms ..... lb. 1.15 - 1.70
Benzothiazyl disulfide, 50-lb. bgs., 150-lb. containers, works, frt. alld., ton lots ..... lb. .35 - —
less ton lots, same basis ..... lb. .37 - —
Benzoyl chloride, cbys., dms., c.l., works, frt. eq. ..... lb. .20½- .21
l.c.l., same basis ..... lb. .21½- .22
Peroxide, pure, fib. ctns., works. ..... lb. .90 - 1.00
Benzyl acetate, f.f.c., dms. ..... lb. .60 - 1.00
dms. ..... lb. .60 - .70
Alcohol (see Alcohol, benzyl).
Benzoate, USP, f.f.c., cns., dms lb. .88 - 1.00
Chloride, tech., cbys., c.l., works, frt. equald ..... lb. .19 - .19½
l.c.l., same basis ..... lb. .20 - .20½
high grade, 2c. higher.
Cinnamate, cns ..... lb. 3.00 - 4.00
Formate, cns ..... lb. 1.60 - 3.50
Propionate, bots ..... lb. 1.34 - 2.30
Salicylate, bots. ..... lb. 1.55 - 2.25
Benzylidinacetone, bots. ..... lb. 1.85 - 2.70
Benzylisoeugenol, bots ..... lb. 8.90 - 9.00
Berberine bisulphate, cns. ..... lb. No stocks
Hydrochloride, bots. ..... lb. No stocks
Sulphate, cns. ..... lb. No stocks
Berberis root, bls. ..... lb. .28 - .35
Betagammapicoline, dms., c.l., works. ..... lb. .21 - 23½
l.c.l., works ..... lb. .21½- 24
Betamethylnaphthalene, m.p., 32°C., dms., works lb. .90 - —
Betanaphthol, resublimed, dms., works ..... lb. .75 - —
tech., bbls., c.l., works ..... lb. .30 - —
l.c.l., works ..... lb. .32 - —
Benzoate, fib. dms., works ..... lb. 1.75 - —
Salicylate, dms. ..... lb. 5.00 - —
Betanaphthylamine, tech., bbls., works lb. .73 - .80
Betaphenylethylamine, dms., works, 1,000-lb. lots ..... lb. 1.25 - —
smaller lots ..... lb. 1.60 - —
Betapicolin, 90%-95%, dms., c.l., works lb. 1.35 - —
98%, dms., c.l., works ..... lb. 1.85 - —
Beth root, bls. ..... lb. .45 - .50
Biotin, cryst. ..... gram. 12.50 - —
Bismuth chloride, jars ..... lb. 3.95 - —
Bismuth citrate, USP VIII, jars ..... lb. 3.27 - —
Hydroxide, dms ..... lb. 4.18 - —
Metal, bxs., ton lots ..... lb. 2.00 - —
Nitrate, cryst., dms ..... lb. 1.85 - —
Oxychloride, dms ..... lb. 3.97 - —
Oxide, anhydrous, dms ..... lb. 4.60 - —
Phenolsulphonate, fib. dms ..... lb 4.70 - —
Subcarbonate, USP, dms ..... lb. 2.80 - —
Subgallate, NF, fib. dms ..... lb. 2.75 - —
Subiodide, fib. dms. ..... lb. 4.90 - —
Subnitrate, NF, dms ..... lb. 2.30 - —
Subsalicylate, USP, dms ..... lb. 3.20 - —
Bismuth-ammonium citrate, USP, powd., dms lb. 3.80 - —
Black, acetylene, bgs., c.l., works lb. .13½- —
cs., l.c.l., shipt. point ..... lb. .17 - .19
Bone, bgs., bbls., l.c.l., dlvd ..... lb. .14¾- .22¾
Carload price ½c. per lb. less. Deliveries to the Pacific Coast, ex dock or whse., 1½c. per lb. higher.
Carbon, channel, beads, bulk, c.l., works ..... lb. .0650- —
bgs., c.l., works ..... lb. .0690- —
l.c.l., dlvd. or whse ..... lb. .1125- .117
uncompressed, regular, bgs., c.l., works ..... lb. .0832- —
bgs., ctns., l.c.l., dlvd. or whse ..... lb. .13¾- —
furnace, fast extruding, bgs., c.l., works ..... lb. .05½- —
ctns., l.c.l., whse ..... lb. .09½- —
high modulus, bgs., c.l., works. ..... lb. .05 - —
ctns., l.c.l., whse ..... lb. .09 - —

Antimony Salt—Bleaching Powder

Black, carbon, furnace, semi-reinforcing, bgs., c.l., works ..... lb. .03¼- —
ctns., l.c.l., whse ..... lb. .07½- —
very fine, bgs., c.l., works lb. .0740- —
l.c.l., dlvd. or whse ..... lb .1125- .1170
Charcoal (see C).
Graphite (see G).
Iron oxide, synthetic, bgs., c.l., works lb. .10¾- —
l.c.l., works ..... lb. .11 - —
Lamp, bgs., c.l., works ..... lb. .07 - .30
Mineral, bgs., works ..... lb 0160- 0675
Black ash (see Barium sulphide).
Blackberry root, bls. ..... lb .12 - .13
bark of root, bls ..... lb. .30 - .32
Black dyes (see Dyes).
Black haw, root bark, bls ..... lb. .75 - .82
Tree bark, bls ..... lb. .28 - .30
Black Indian hemp root, bls ..... lb. .45 - .50
Blanc fixe, dry, by-product, bgs., c.l., works ..... ton. 77.50 - —
l.c.l., works ..... ton. 85.00 - —
direct process, bgs., c.l., works ..... ton. 85.00 - —
l.c.l., works ..... ton. 90.00 - —
N. Y. whse ..... ton. 108.00 - —
bbls., c.l., works ..... ton. 90.00 - —
l.c.l., works ..... ton. 95.00 - —
N. Y. whse. ..... ton. 113.00 - —
pulp, 66¾%, bbls., c.l., works, ... ton. 67.00 - —
l.c.l., same basis ..... ton. 73.00 - —
Bleaching powder, dms., c.l., works, 100 lbs. 4.25 - —
l.c.l., works ..... 100 lbs. 4.75 - —

ETHYLENE GLYCOL

FORMIC ACID 90%
MAGNESIUM OXIDE Heavy
DINITROANILIN
SODIUM BICHROMATE
PARA-AMINOPHENOL
SODIUM SULFATE, ANHYDROUS
METHANOL, Pure Synthetic
ANILIN OIL
POTASSIUM CHLORATE
METHYL ETHYL KETONE

ACETONE, C.P.

420 LEXINGTON AVE.
NEW YORK 17, N. Y.
MU 6-3600

GOLWYNNE
CHEMICALS CORPORATION

Blood, Dried—Calcium Cyanide

Blood, dried, 16-16½% ammo., bgs., unit-ton. 8.00 - —
high-grade, ungrouna, 16-17% ammon., bulk, Chicago. unit-ton. 8.50 - —
soluble, bgs., c.l. ..... lb. .17 - .19
l.c.l. ..... lb. .18 - .25
Bloodroot, bls ..... lb. .48 - .50
Blue, alkali, dry, bbls., dlvd. N. of Tenn. and N.C., E. of Miss. R. including St. Paul, Minneapolis, Davenport, Rock Island, St. Louis ..... lb. 1.90 - —
Toner, bbls., litho flushed, same basis lb. 1.10 - —
Celestial, bbls., same basis ..... lb. .15 - .16
Chinese, bbls., same basis ..... lb. .45 - —
Cobalt, genuine, bbls., same basis. lb. 4.90 - —
imitation (see Blue, ultramarine).
Copper-phthalocyanine, full strength, bbls., same basis lb. 3.75 - 3.85
80%, bbls., same basis ..... lb. 3.00 - 3.40
Iron (see Blue, Chinese, Milori, Potash, Prussian, and Soda).
Methyl violet toner, bbls., same basis lb. 4.20 - —
Milori, bbls., same basis ..... lb. .45 - —
Peacock, fugitive, 100% color strength, same basis lb. .60 - .79
Permanent toner, green shade, molybdic, bbls., same basis lb. 3.75 - —
tungstic ..... lb. 4.00 - —
Potash, CP, bbls., same basis lb. .51 - —
Prussian, bbls., same basis ... lb. .45 - —
soluble, bbls., same basis ... lb. .45 - —
Soda, C.P., bronze, bbls., same basis lb. .39 - —
Blue, ultramarine, cobalt type, dry or pulp, bbls., same basis lb. .25 - .26½
jobbing type, dry, bbls., same basis lb. .14 - —
regular types, dry or pulp, bbls., same basis lb. .19 - .29
Victoria toner, molybdic, bbls ton. 3.75 - —
Tungstic, bbls ..... lb. 3.75 - —
Violet toner, molybdic, bbls., same basis lb. 1.24 - —
Tungstic, kgs., same basis ... lb. 2.60 - 2.70

Blue dry colors, dlvd. prices ½c. higher Ala., Fla., Ga., La. (Shreveport, 1¼c.), Miss., N. C., S. C., Tenn., Tex. (El Paso, 2c.), Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph, 1.6c. higher, Pac. Coast, Denver, Pueblo, Salt Lake City, Wichita frt. equalized with Chicago.

Blue dyes are listed under Dyes.

Blueflag, root, bls. ..... lb. .45 - .50
Bluestone (see Copper sulphate).
Blue vitriol (see Copper sulphate).
Boldo leaves, bls ..... lb. .09 - .10
Bone, raw, bulk, Chicago ..... ton.75.00 - —
junk, bulk, same basis ..... ton.50.00 -52.00
Meal, raw, 4½% ammon., 50% phos., bgs., E. works .. ton.70.00 - —
Chicago, works ..... ton.70.00 - —
steamed, feeding grade, 1% ammon., 60% phos., bgs., E. works .. ton.75.00 - —
Chicago, works ..... ton.75.00 - —
fertilizer grade, 3% ammon., 50% phos., bgs., E. works. ton.75.00 - —
Chicago, works ..... ton.75.00 - —

Phosphate, defluorinated (see D). precipitated (see Calcium phosphate tribasic precip).

Boneset leaves, bls ..... lb. .14 - .16
Borage flowers, bls ..... lb. .43 - .45
Borax, tech, anhydrous, bgs., c.l., works .. ton.70.50 - —
ton lots, ex whse, N. Y. or Chi .. ton.115.25 - —
less ton lots, same basis, ton.120.25 - —
bbls., c.l., works ..... ton.90.50 - —
ton lots, ex whse, N. Y. or Chi .. ton.135.25 - —
less ton lots, same basis, ton.140.25 - —
bulk, c.l., works ..... ton.64.00 - —
crystals, 99½%, bgs., c.l., works. ton.61.25 - —
ton lots, ex whse, N. Y. or Chi .. ton.106.00 - —
less ton lots, same basis, ton.111.00 - —
bbls., c.l., works ..... ton.81.25 - —
ton lots, ex whse, N. Y. or Chi .. ton.126.00 - —
less ton lots, same basis, ton.131.00 - —
bulk, c.l., works ..... ton.57.25 - —
granular, 99½%, bgs., c.l., works ton.35.25 - —
ton lots, ex whse, N. Y. or Chi .. ton.80.00 - —
less ton lots, same basis, ton.85.00 - —
bbls., c.l., works ..... ton.55.25 - —
ton lots, ex whse, N. Y. or Chi .. ton.100.00 - —
less ton lots, same basis, ton.105.00 - —
bulk, c.l., works ..... ton.31.25 - —
powdered, 99½%, bgs., c.l., works .. ton.40.25 - —
ton lots, ex whse, N. Y. or Chi ton.85.00 - —
less ton lots, same basis, ton.90.00 - —

Borax, tech., powd., 99½%, bbls., c.l., works .. ton.60.25 - —
ton lots, ex whse, N. Y. or Chi .. ton.105.00 - —
less ton lots, same basis, ton.110.00 - —
bulk, c.l., works ..... ton.36.25 - —

Borax packed in kgs. is $4e per ton higher than borax packed in paper bgs. USP borax $15 per ton higher than tech.

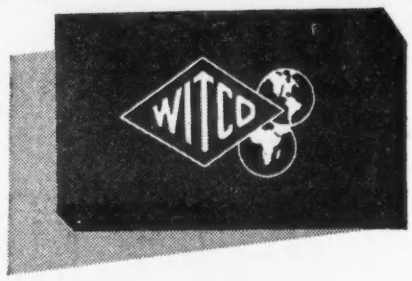
Bordeaux mixture, bgs., c.l., works, frt. alld. or nearest whse. point .. lb. .15 - .21
l.c.l., same basis ..... lb. .16 - .23
Bornyl thiocyanoacetate (see Isobornyl thiocyanoacetate).
Brazilwood extract (see Hypernic).
Brimstone (see Sulphur).
Bromine, purified, cs., c.l., frt. alld. E. of Rockies .. lb. .21 - —
1,000 lbs., same basis ... lb. .23 - —
single pkgs., same basis lb. .28 - —
dms., lead-lined, c.l., dlvd .. lb. .19 - —
Bromoform, USP, bots ..... lb. 1.50 - 1.70
cbys. ..... lb. 1.42 - —
Bromstyrol, bots ..... lb. 4.85 - 6.25
Bronze powder, aluminum (see A).
Gold, litho., cans, dms., works. lb. .50 - .60
moulding, cans, dms., works. lb. .80 - 1.00
printing ink, cans, dms., works .. lb. .95 - 1.10
radiator, cans, dms., works. lb. .60 - .65
Broomtop, bls. ..... lb. .25 - .26
Brown, iron, synth., bgs., l.c.l., works .. lb. .12½- —
Oxide, metallic, bgs., works lb. .03 - .03¼
Sap, crystals, works ..... lb. .12 - —
powdered ..... lb. .13 - —
Sienna, burnt, paper bags., c.l., works .. lb. .03¾- .14¾
l.c.l., works ..... lb. .04 - .15
raw, paper bgs., c.l., works lb. .04 - .12½
l.c.l., works ..... lb. .04¼- .12¾
Umber, burnt, American, c.l., bbls., works .. lb. .04¾- .05¾
l.c.l., bgs., works ..... lb. .05 - .06¾
Turkey type, bgs., c.l., Boston, Bethlehem, Easton, Pa., Hiwassee, Va., N.Y. lb. .05¾- .07¾
l.c.l., works ..... lb. .06 - .08
raw, American, bgs., same basis lb. .03¾- .06
Turkey type, bgs., same basis lb. .06 - .06¼
Vandyke, bbls., works ..... lb. .09¾- .12
Brucine, cns., 100 ozs ..... oz. .40 - .50
Sulphate, NF, cns., 100 ozs ..... oz. .30 - .40
Bryonia root, bls ..... lb. .30 - .35
Buchu leaves, bls ..... lb. .83 - .85
Buckthorn bark, bls ..... lb. .16 - .18
cut and sifted, bls ..... lb. .25 - .27
Berries, bgs ..... lb. .85 - 1.00
Burdock, root, bls ..... lb. .20 - .26
Butadiene, cyls., refy ..... lb. .19 - —
tanks, same basis ..... lb. .11½- —
Butane, indust., tanks, group 3 .. gal. .03½- —
Butternut bark, bls ..... lb. .20 - .30
Butyl acetate, normal, ferment, Ill., Ind., prod., dms., cl., works, frt. alld. E. of Miss .. lb. .15½- —
l.c.l., same basis .... lb. .16½- —
tanks, same basis ..... lb. .14 - —
tankwagons, same basis. lb. .14½- —
other production, dms., c.l., same basis .. lb. .15½- —
l.c.l., same basis ..... lb. .16½- —
tanks, same basis ..... lb. .14 - —

Normal butyl acetate W. of Miss., ½c. per lb. higher.

synthetic, normal, dms., c.l., same basis .. lb. .15½- —
l.c.l., same basis ..... lb. .16½- —
tanks, same basis ..... lb. .14 - —
secondary dms., c.l., dlvd. E. of Miss .. lb. .12½- —
l.c.l., same basis ..... lb. .13 - —
tanks, same basis ..... lb. .11 - —
Alcohol (see Alcohol, butyl)
Aldehyde, dms., c.l., works .... lb. .20½- —
l.c.l., works ..... lb. .21½- —
tanks, works ..... lb. .19½- —
Ether (see Ether, butyl).
Isobutyl methacrylate, P-5, 50/50, cns., works .. lb. .60 - —
Lactate, dms., c.l., frt. alld. E. of Rockies .. lb. .42½- —
l.c.l., same basis ..... lb. .43½- —
tanks, same basis ..... lb. .41 - —
Laurate, dms., works ..... lb. .42 - —
Methacrylate, M-4, dms., works lb. .60 - —
cns., works ..... lb. .63 - .67
P-4, cns., works ..... lb. .65 - —
Myristate, dms., works ..... lb. No prices.
Oleate, refd., dms., l.c.l., works lb. .52 - —
Phenylacetate, dms ..... lb. 2.00 - 2.25
Phthalate (see Dibutyl phthalate).
Propionate, dms., dlvd ..... lb. No stocks
tanks, dlvd. ..... lb. No stocks
Stearate, dms., c.l., frt. alld. E. of Rockies .. lb. .32 - —
l.c.l., same basis ..... lb. .33 - —
Butyric ether (see Ethyl butyrate).

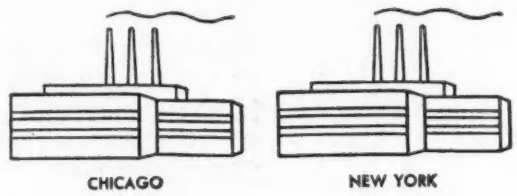
C

Cacao butter (see Cocoa butter).
Cadmium bromide, jars ..... lb. 2.49 - 2.80
Iodide, jars ..... lb. 5.10 - —
Lithopone (see Yellow).
Metal, ingots or sticks, cs., dlvd. lb. 2.00 - —
patent shapes, cs., dlvd ..... lb. 2.15 - —
Selenide (see Red).
Sulphide (see Yellow).
Caffeine, USP, cryst., dms., 100 lbs or more .. lb. 4.75 - 8.00
anhydrous, dms., 100 lbs. or more .. lb. 5.00 - —
Citrated, USP, dms., 100 lbs. or more .. lb. 3.00 - —
Hydrobromide, bots. ..... lb. 6.50 - —
Calabar beans, bgs., futures .... lb. .65 - .66
Calamine, USP, dms ..... lb. .27 - .29
Calamus root, dom., bgs ..... lb. .27 - .30
imported, bleached, bls ..... lb. .70 Nom.
peeled, bls ..... lb. .30 - .31
Calciferol, cryst., vials, 10,000 or more standard units (1 standard unit=1,000,000 USP units), works .. gram. 4.00 - —
1,000 to 10,000 s.u., works .. gram. 4.40 - —
less than 1,000 s.u. works .. gram. 4.80 - —
In edible oil, dms., 10,000 or more. .10 - —
1,000 to 10,000 s.u., works ... unit. .11 - —
less than 1,000 s.u., works .. unit. .12 - —
Calcium acetate, bgs., dlvd ... 100 lbs. 3.00 - 4.00
Arsenate, dealers, dms., c.l., whse., works, frt. alld .. lb. .10½- —
l.c.l., same basis ..... lb. .11½- —
Bromide, NF, jars ..... lb. .75 - .85
Carbide, standard generator size, dms., c.l., dlvd .. ton.121.00 - —
Carbonate (see Chalk and Whiting).
Chloride, cryst., purified, bbls., jars .. lb. .28 - .30
flake, 77-80%, paper bgs., c.l., works, frt. equald .. ton.22.00 - —
l.c.l., same basis ..... ton.37.00 -67.00
liquor, works, basis 40%, tank-cars .. ton. 9.00 - —
solid, 73-75%, dms., c.l., works, same basis .. ton.20.00 - —
l.c.l., works, same basis .. ton.30.00 -59.00
USP, gran., bbls ..... lb. .30 - —
Chromate, bgs., frt. equald ..... lb. .29½- .30
Cyanide, dms., dlvd. E. of Rockies. lb. .30 - .80



WITCO QUALITY STEARATES

available from two big modern plants:



aluminum · barium · cadmium · calcium · lead · lithium · magnesium · zinc

The Witco Chemical Company produces Witco Stearates in its own manufacturing plants — one located in Brooklyn, New York and the other in Chicago, Illinois.

Over twenty-five years' experience in the manufacture of stearates — plus continual research and laboratory control — are your guarantee of unexcelled quality and uniformity — no matter from which plant your shipment is made.

Stocks are maintained throughout the country so that you can be assured of prompt deliveries to meet all your requirements.

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Calcium gluconate, AA, bbls., dms. lb. .65 - .72
USP, bbls., dms lb. .58 - .65
Glycerophosphate, NF, fib. dms. lb. 1.63 1.80
Hydride, dms., works lb. .90 —
Hypochlorite, 100-lb. dms., dlvd. E. of Rockies dm.24.00 -28.50
cns., cased (45 lbs.) same basis cs.19.75 -21.50
Hypophosphite, 50-lb. lots, dms lb. .80 - .83
Iodide, jars lb. 4.12 - —
Lactate, USP, dms lb. .37 - .44
Mandelate, USP, dms., works lb. 2.10 - —
Naphthenate, liq., 4% Ca, dms., frt. alld. lb. .23¾- —
Nitrate, tech., works lb. .07 - .09
Pantothenate dextro. jars gram .07½- —
Phenolsulphonate, dms. lb. 59 - .60
Phosphate, dibasic, USP, bgs., c.l., 100 lbs. 6.75 - —
l.c.l. 100 lbs. 7.10 - 7.45
feed grade, bgs., 10 tons, works. ton.105.00 - —
one ton or over, works ton.113.00 - —
less than one ton, works ton.125.00 - —
monobasic, bgs., 10,000 lbs., works, frt. equald lb. .05¾- —
smaller lots, same basis lb. .06¼- —
tribasic, bgs., c.l., works 100 lbs. 6.50 - —
l.c.l., works 100 lbs. 6.95 - 7.30
Phytate, bgs., works lb. .22 - —
Resinate, precip., dms., frt. alld. works lb. .24 - —
Silicate, hydrated, bgs., c.l., works lb. .05½- —
l.c.l., works lb. .06 - —
Stearate, precip., ctns., c.l., works. lb. .32 - —
l.c.l., works lb. .33 - .34
Sulphate (see Gypsum).
Sulphide, 76%, bgs., c.l., works ton.45.00 - —
70%, bgs., c.l., works ton.56.00 - —
luminous tins, works lb. 1.25 - —
Calcium-strontium sulphide, phosphorescent, dms., works lb. 1.06 - 1.50
fine particle size, dms., works lb. 1.50 - 1.75
Calendula flowers, bls lb. .50 - .85
Calomel, USP, cryst., dms lb. 1.82 - 1.83
fine powd., dms lb. 1.97 1.98
Camphene, chlorinated, 67-69% (see Toxaphene).
Camphor, NF, monobromated, dms., kgs. lb. 3.10 - 3.20
Camphor, natural lb No stocks.
synth., tech., bbls., 2,000 lbs. or more, works lb. .42 - —
10 bbls. (1,500 lbs.) lb. .44½- —
smaller lots lb. .45 - .55
USP, gran., powd., bbls., 2,000-lb. lots lb. .58 - —
1,000-lb. lots lb. .59 - —
smaller lots lb. .60 - —
tablets, tins, 2,000-lb. lots lb. .78 - —
1,000-lb. lots lb. .79 - —
smaller lots lb. .80 - —
Canada balsam (see Fir balsam).
Cantharides, Chinese, cs lb. 1.10 - 1.30
powd., bxs lb. 1.25 - 1.50
Russian, bgs lb. 5.00 - 5.25
powd., bxs. lb. 5.75 - 6.00
Capsicum (see Pepper, red).
Oleoresin, NF VIII, cns lb. 6.50 - 6.75
Caramel coloring, NF, bbls gal. 1.02 - 1.20
Caraway seed, Danish, bgs lb. .17½- .18
Dutch, bgs. lb. .18 - .18½
Carbazole, 97%, steel dms., ton lots, works lb. 1.75 - —
fib. dms., same basis lb. 1.70 - —
Carbinol butyl, normal (see Alcohol, amyl, refined)
secondary, dms., l.c.l., works lb. .70 - —
Methylisobutyl, dms., c.l., frt. alld. E. lb. .14½- —
l.c.l., same basis lb. .15 - —
tanks, same basis lb. .13 - —
Carbon bisulphide, 50-gal. dms., c.l., works, frt. alld. to competitive points lb. .06¼- —
l.c.l., same basis lb. .07¼- —
5-gal. dms., same basis lb. .09½- —
l.c.l., same basis lb. .08¾- —
tankcars, same basis lb. .0445- —
Dioxide, cyls lb. .06 - .08
Tetrachloride, CP, dms., works lb. .09 - .11½
tech., dms., E. of Rockies, c.l., frt. alld. lb. .08 - —
l.c.l., same basis lb. .08½- —
W. of Rockies, c.l., f.o.b. stock points lb. .08½- —
l.c.l., frt. alld. lb. .09 - —
NF, cbys lb. .17 - .19
Carboxymethylcellulose-Sodium—See CMC.
Carbromal, NF, dms., ton lots, works lb. 4.25 - —
100-lb. lots, works lb. 4.75 - —
Cardamom fruit, bleached, bold, cs., lb. 3.25 - 3.30
medium, cs lb. 3.00 - 3.10
Coorges, cs., futures lb. 2.20 - 2.25
decorticated, Guatemalan, cs., futures lb. 2.42 - 2.48
Indian, cs. lb. 3.00 - —
green, Alleppey, bgs., futures lb. 2.20 - 2.25
Seed (See Cardamom fruit, decorticated).
Carmine, No. 40, NF, bulk, 100 lbs. or more lb. 5.50 - —
smaller lots lb. 5.65 - 6.13
Carotene, crystals, research grade, ampuls, pure alpha or beta, 10 mg. 5.00 - —
90% beta-10% alpha, ampuls 100 mg. 2.00 - —
bulk grain quantities gm. 5.00 - —
technical, 1,350,000 A units per gram gm. .67½- —
tins, works gm. .62 - —
dry powder, 3,330 A units per gram lb. .70 - —
emulsion (in milk), 500,000 A units per 16-oz. cn. cn. .85 - —
in vegetable oil, 250,000 A units per gram lb. 37.24 - —
50,000 A units per gram lb. 7.87 - —
26,000 A units per gram, tins, works milli. units. .32 - —
dms., works milli. units. .30 - —
3,330 A units per gram lb. .85 - —
microcrystalline, in oil, 400,000 A units per gram, tins, works milli. units. .50 - —
Carvol, bots lb. 10.00 -16.00
Cascara sagrada bark, bulk lb. .28 - .30
Case-hardening mixture, 30% gran., dms., l.c.l., works lb. .10½- —
Casein, dom., acid-precip., bgs., 10,000 lbs. or more, ship't point lb. .20 Nom.
rennet-precip., 10,000 lbs. or more, same basis lb. .28 Nom.
imported, acid-precip., ground, bgs. or more lb. .19¾- .20 Nom.
Cashew nut liq., treated, dms., c.l., f.o.b. Newark, N. J. lb. .21 - —
ton lots, same basis lb. .22¼- —
dm. lots, same basis lb. .24¼- —
Cassia bark, Batavia, longstick, bls. lb. .27 - .28
broken, bls. lb. .24 - .24½
short stick, bls lb. .23 - .24
China, Canton, rolls, select, cs. lb. .11 - .11¼
broken, bls. lb. .09 - .09½
Honan, rolls, scraped, bls lb. .14 - .14½
broken, bls lb. .13 - .13½
unscraped, bls. lb. .14 - .15
broken, bls. lb. .13½- .14
Saigon, broken, bls lb. .25 - .28
medium, bls. lb. .34 - .35
thin, bls. lb. .42 - .43
Cassia bark, Chinese, Yunnan, rolls, scraped, bls lb. .13 - .13½
broken, bls lb. .13 - .13½
unscraped, bls lb. .13 - .13½
broken, bls lb. .13 - .13½
Buds, China, bgs lb. .23 - .24
Cassia fistula, bskts lb. .30 - .35
Castor beans, bgs., Brazilian ports long ton.107.00 - —
Oil (see Oil, castor).
Pomace, bgs., c.l., works ton.24.00 Nom.
Castoreum, nat., cns lb.12.00 -45.00
synthetic, cns lb.22.00 - —
Catechol, CP, cryst., fib. dms., works. lb. 2.00 - —
resublimed, dms., works lb. 4.00 - —
Catnip, bls. lb. .55 - .60
Celery seed, French, bgs lb. .25½- .26
Indian, bgs. lb. .22½- .23
futures, bgs lb. .24 - .25
Celluloid scrap (see Pyroxylin scrap).
Cellulose acetate, flake, ctns., works, frt. alld. on 100 lbs. or more lb. .36 - .40
granules, ctns., same basis lb. .42 - —
molding composition, plain colors, translucent, metallic pearls, special black, dms., c.l., frt. alld. lb. .40 - —
l.c.l., same basis lb. .45 - .51
regular black, dms., l.c.l., same basis lb. .31 - .39
variegations, dms., l.c.l., same basis lb. .50 - .59
molding and extrusion transparents, dms., c.l., same basis lb. .47 - —
l.c.l., same basis lb. .49 - .54
extrusion compounds, translucent metallic pearls, special black, dms., c.l., same basis lb. .42 - —
l.c.l., same basis lb. .44 - .49
Cellulose butyrate, flake, 17% butyryl content, ctns., 500 lbs. or over, works lb. .52 - —
less than 500 lbs., works lb. .53 - —
17.5% butyryl content, ctns., 500 lbs. or over, works lb. .49 - —
less than 500 lbs., works, lb. .50 - —
26.5% butyryl content, ctns., 500 lbs. and over, works lb. .53 - —
less than 500 lbs., works lb. .54 - —
37% butyryl content, ctns., 500 lbs. and over, works lb. .53 - —
less than 500 lbs., works lb. .54 - —
45% butyryl content, ctns., 500 lbs. and over, works lb. .57 - —
less than 500 lbs., works lb. .58 - —
molding composition, plain colors, pearls, transparents, special black, dms., l.c.l., frt. alld. lb. .56 - .61
regular black, dms., l.c.l., same basis lb. .44 - .48
variegations, dms., l.c.l., same basis lb. .61 - .66
Triacetate, flake, ctns., works, frt. alld. on 100 lbs. or more lb. .40 - —
Cerium hydrate, dms., works lb. 1.25 - —
Oxalate, NF, bbls., bgs., works lb. .70 - .73
Oxide, optical grade, bgs., under 100 lbs., works lb. 2.25 - —
kgs., 100-lb. lots, works lb. 1.75 - —
Chalk, precip., cosmetic, dentifrice, drugs, bgs., c.l., works lb. .02⅞- .05⅛
l.c.l., ex whse lb. .04 - —
paint, bgs., c.l., works ton.40.00 - —
papermakers, bgs., c.l., works. ton.32.50 -40.00
rubber makers, bgs., c.l., works. ton.30.00 - —
Chamomile flowers, Hungarian, cs.lb. .45 - .48
Roman, bls lb. 1.00 - 1.30
Charcoal, activated, USP, fib. dms., c.l., works lb. .25 - .32
5-ton lots, works lb. .26½- .32⅛
smaller lots, works lb. .27 - .50
Bone, NF, bbls lb. .23 - —
Hardwood, briquets, bulk, c.l., works ton.49.80 - —
bgs., c.l., works ton.51.80 - —
granular, bgs., incl., c.l., works. ton.46.80 -59.00
lump, bulk, c.l., works ton.38.80 -43.50
bgs., extra, returnable, c.l., works ton.41.80 -45.50
Pinewood, gran., powd., ogs., c.l., works, South ton.40.00 - —
l.c.l., works. ton.50.00 -60.00
lump, bgs., c.l., works, South ton.35.00 - —
Willow, powd., bbls lb. .06 - .07
Chestnut extract, 25% tannin, bbls., c.l., works lb. .0465- —
l.c.l., works lb. .0495- —
tanks, works lb. .0375- .0390
powd., 65% tannin, bgs., extra, c.l., works lb. .1105- —
l.c.l., works lb. .1170- .1190

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9. Dinitrochlorbenzene 46.5°
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16. *ortho*-Chlorphenol
17. *ortho*-Nitraniline
18. *ortho*-Nitrobiphenyl
19. *ortho*-Nitrochlorbenzene
20. *ortho*-Phenetidin
21. *para*-Minobiphenyl
22. *para*-Nitrobiphenyl
23. *para*-Nisidine
24. *para*-Chloraniline
25. *para*-Chlorphenol
26. *para*-Nitrochlorbenzene
27. *para*-Nitrophenol
28. *para*-Phenetidin
29. *para*-Toluenesulfonamid
30. *para*-Toluenesulfenchloride
31. Phenol
32. Phenolsulfonic Acid
33. Phosphorus Oxychloride-Phosphorus Trichloride
34. Salicylic Acid, Technical
35. Sodium Benzoate Technical
36. Thiourea

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China Clay—Cyclohexylamine

China clay, dom., dry-grd., air-float, 99.75% 300 mesh, bgs., c.l., works ton 12.50 -13.00
l.c.l., works ton 13.50- 14.00
bulk, c.l., works ton 9.50 -10.00
200 mesh, bgs., c.l., works ton 10.00 -12.00
l.c.l., works ton 11.00 -16.00
wet-grd., silk-bolt, 99½%, 325 mesh, bulk, c.l., works ton 13.00 - —
paper bgs., c.l., works, ton 15.00 - —
imported, white lump, bulk, c.l., ex dock Balto., Boston, Norfolk, Phila net ton 16.00 -35.00
powd., bgs., c.l., ex dock ton 45.00 - —
l.c.l., ex whse ton 50.00 -55.00
Chloral, tech., dms., c.l., works lb. .41 - —
l.c.l., works lb. .42 - —
tanks, works lb. .40 - —
Hydrate, USP, jars lb. 1.05 - 1.15
Chloramine T, NF, bbls., works lb. .75 - —
Chlordane, agricultural, dms., l.c.l. stock points lb. .82 - 2.00
refined, dms., stock points lb. .97 - 2.15
Chlorinated paraffin, dms., works lb. .12¼- .13¼
Rubber, standard, ctns., c.l., works lb. .42 - —
l.c.l., works lb. .43 - —
Chlorine, liquid, cyls., c.l., works lb. .07 - .12
l.c.l., stock points lb. .09 - .19
tanks, single units, works, frt. equald 100 lbs. 2.40 - —
multiple units, 3 cars, works, frt. equald 100 lbs. 2.70 - —
2 cars, same basis 100 lbs. 3.30 - —
1 car, same basis 100 lbs. 3.90 - —
Chloroform, tech., dms. lb. .20 - .23
USP, dms. lb. .30 - .33
Chloro(4)-2-Toluidine, obls. lb. 1.38 - —
Chlorophyll, oil soluble, water soluble, cosmetic and pharmaceutical, bots. lb. 4.00 - 4.50
Chloropicrin, com'l, bots lb. 1.40 - —
cyls., 180-lbs., frt. alld lb. .91 - —
100-lbs., same basis lb. .93 - —
25-lbs., same basis lb. 1.18 - —
Cholesterol, USP, fib. dms., 100-lb. lots lb. 8.50 - —
5-lb. pkg. lb. 9.00 - —
1-lb. pkg. lb. 9.50 - —
Choline chloride, fib. dms., works lb. 3.00 - 3.10
feed grade, fib. dms., works lb. 2.20 - —
Dihydrogen citrate, fib. dms., works, lb. 3.00 - 3.10
Chromium acetate, powd., 72% Cr., bbls., works lb. No stocks
solut., 7%, bbls., cs lb. .08 - .08½
8½%, bbls., cs lb. No stocks
Fluoride, bbls., works lb. .44½- —
Green (see Green, chrome).
Oxide (see Green, chromium oxide).
Oleate, bbls. lb. .54 - —
Trioxide (see Acid, chromic).
Yellow (see Yellow, chrome).
Chrysarobin, USP, bots. lb. 7.65 - 9.24
Cinchona bark, N.F., red, quill, 20-inch, cs lb. 1.26 Nom.
broken, bgs lb. .45 - .50
yellow, broken, bgs. lb. .35 - .40
Cinchonidine, small cryst., ctns., 100 ozs. oz. .95 - —
Sulphate, ctns., 100 oz. oz. .55 - —
Cinchonine, large cryst., ctns., 100 ozs. oz. .69 - —
small cryst., ctns., 100 ozs. oz. .65 - —
Sulphate, N.F., ctns., 100 ozs. oz. .42 - —
Cinchophen, NF, heavy, dms., works lb. 4.20 - 4.55
Standard, dms., works lb. 4.00 - 4.35
Cinchophen-sodium, standard, dms., works lb. 5.00 - 5.35
Cinnamic alcohol (see Alcohol, cinnamic).
Aldehyde, cbys., cns., dms. lb. .83 - .90
Cinnamon, Ceylon, No. 1, bls. lb. .17 - .17½
Citral, bots., cns. lb. 3.60 - 5.00
Citronellal, bots., dms. lb. 2.50 - 7.75
Citronellol, bots., dms lb. 2.95 - 4.75
Civet, bots oz. 5.50 -15.00
Clove, Madagascar, bls lb. .17 - .17½
futures, bls. lb. .19 - .19½
Zanzibar, bls lb. .24 - .24½
futures lb. .22½- .23
Clover tops, red, dom., bgs lb. .55 - .65
imported, bgs. lb. No stocks
CMC, purified, high vis., ctns., 20,000 lbs. or over, works, frt. alld lb. .63 - —
smaller lots, same basis lb. .65 - 75
low and medium vis., ctns., 20,000 lbs. or over, works, frt. alld lb. .60 - —
smaller lots, same basis lb. .62 - 72
tech., low vis., dms., c.l., works lb. .30 - —
l.c.l., works lb. .32 - —
Coaltar, coal-gas, water-gas, crude, resale, dms., c.l., ex-whse, gal. .24½- —
l.c.l., ex-whse gal. .26 - —
tanks, ex-whse. gal. .14½- —
refd., resale, bbls., c.l., ex-whse, gal. .25½- —
l.c.l., ex-whse. gal. .27 - —
tanks, ex-whse gal. .15½- —
Cobalt acetate, bbls., dlvd lb. .93½- —
Carbonate, powd., bgs., works lb. 1.65 - —
feed grade, 49½% Co, kgs. lb. 1.65 - —
Chloride, kgs., works lb. .91¼- —
feed grade, 24.5% Co, kgs. lb. .91¼- —
Hydrate, bbls lb. 2.13 - —
feed grade, 62% Co, kgs. lb. 2.13 - —
Cobalt, linoleate, paste, 6% Co, dms. lb. .57 - —
solid, 8½%, Co, dms lb. .66½- —
8% Co, dms lb. .62½- —
Naphthenate, liq., 6% Co, dms. lb. .37¼- —
Nitrate, feed grade, 20.4% Co, bbls. lb. .78¾- —
Oxide, black, kgs lb. 1.38 - —
Phosphate, feed grade, 34% Co, kgs. lb. 1.31¼- —
Resinate, fused, 3% Co, dms. lb. .22¾- —
Sulphate, bgs. lb. .68¼- —
feed grade, 21% Co, kgs lb. 1.05 - —
Cobalt salts, prices are on dlvd., basis.
Cobalt-ammonium sulphate, 14% Co, kgs. lb. .75 - —
Cocaine, USP, cns., 100-oz oz. 15.00 - —
Hydrochloride, cns., 100-oz. lots oz. 11.75 - —
Cochineal, gray, bgs lb. .67 - .68
silver, Teneriffe, bgs. lb. .69 - .70
Cocillana bark, bgs lb. .18 - .20
Cocoa butter, bgs lb. .38 - .39
Codeine, NF, cns., 100 ozs oz. 13.25 - —
Hydrochloride, cns., 100 ozs oz. 11.85 - —
Phosphate, USP, cns., 100 ozs oz. 10.25 - —
Sulphate, USP, cns., 100 ozs oz. 10.75 - —
Codliver oil (see Oil, codliver).
Cohosh, black, root, bls. lb. .24 - .26
Blue, root, bls lb. .17 - .19
Colchicine, USP, bots., cns oz. 145.00 - 160.00
Colchicum seed, bgs lb. 2.75 - 3.00
Collodion, USP, dms lb. .24 - .29
Flexible, USP, dms lb. .25½- .30½
Colocynth, pulp, bls lb. .35 - .40
Colombo root, bls lb. .18 - .23
Coltsfoot leaves, bgs lb. .33 - .35
Condurango bark, bgs. lb. .20 - .21
Copaiba balsam, cns., dms lb. .65 - .69
Copper acetate, cupric, bbls., works lb. .28 - —
smaller containers, works lb. .29 - .30
Carbonate, 55%, bbls lb. .218 - .2525
Chloride, anhyd., bbls., works lb. .25½- —
crystals, bbls., works lb. .17¼- —
Citrate, USP, 5-lb bots lb. 2.40 - —
Cyanide, tech., bbls lb. .45 - —
Gluconate, dms., cns lb. 3.00 - 3.20
Hydrate, dms., dlvd. E. Miss lb. .27½- .28
Metal, electrolytic, dlvd lb. .17 - —
Naphthenate, liquid, 8% Cu, dms., frt. alld lb. .22¼- —
Nitrate, tech., crys., bbls., works. lb. .21¼- —
Oleate, liquid, 8.5% Cu, bbls lb. .33 - —
solid, 10% Cu, bbls lb. .45¾- —
12.5% Cu, bbls lb. .44½- —
Oxide, black, bbls., works lb. .23½- .26¼
red, com'l, bbls., works lb. .25½- .28¾
Oxychloride-sulphate, bgs., frt. alld lb. .24¼- .27¼
Quinolate lb. 3.50 - —
Resinate, precip., dms., frt. alld. lb. .23½- —
Stearate, bgs., works lb. .39½- —
Sulphate, cryst., 99%, bgs., c.l., works, 100 lbs. 7.00 - —
l.c.l. 100 lbs. 7.25 - 8.00
CP, cryst., gran., dms., works. lb. .12¾- —
monohydrated, 35%, dms., c.l., dlvd. 100 lbs. 11.90 - —
tribasic, dealers, bgs., c.l., works lb. .1815- —
l.c.l., works lb. .2050- —
USP, gran., cryst., dms lb. .10 - .26
Copperas, cryst., gran., bgs., c.l., works ton 17.00 - —
l.c.l., works 100 lbs. 1.55 - 2.00
bbls., c.l., works ton 20.00 - —
bulk, c.l., works ton 14.00 - —
Copra, c.i.f., Pacific ports ton 150.00 -155.00
Atlantic or Gulf ports ton 155.00 -160.00
Coriander seed, Argentine, bgs., futures lb. .06 - .06¼
Italian, bgs lb. .05½ Nom.
Moroccan, bgs lb. .06½- .07
Corn sugar, tanners, chipped, paper bgs., c.l., 60,000 lbs. min. 100 lbs. 5.63 - —
bbls., c.l., same basis 100 lbs. 5.68 - —
Syrup, 42°, bbls., c.l. 100 lbs. 6.00 - —
l.c.l. 100 lbs. 6.10 - —
Cornsilk, bls lb. .15 - .16
Corrosive sublimate, NF, cryst., dms., 50 lbs. or more lb. 1.68 - —
gran., powd., dms., 50 lbs. or more lb. 1.53 - —
Cottonroot bark, bls lb. .30 - .35
Cottonseed hull ash, 32-36% potash, bgs., dlvd., unit-ton 1.75 - —
Meal, 41% protein, sacked, c.l., mills ton 63.50 -67.50
Coumarin, cns., 25 lbs lb. 2.75 - —
smaller lots lb. 2.80 - 2.90
Cramp bark, NF, bls lb. .80 Nom.
Cranesbill root, bls lb. .28 - .30
Cream of tartar, dom., NF, gran. or powd., bbls., 5,000 lbs. one ship lb. .29½- —
smaller lots lb. .30 - .31
Imported, kgs lb. .24 - .26
Creosote, coaltar, crude, tanks, works gal. .16 - .19¼
refined, dms., c.l., works gal. .38½- —
l.c.l., same basis gal. .39 - —
tanks, same basis gal. .25 - —
solution, 80%, tanks, works gal. .20 - —
NF, beechwood, bots, cbys lb. 1.15 - 1.20
hardwood, bots, cbys lb. .85 - —
Pinewood, dms gal. .31 - .35
Creosote carbonate, NF, bots., cbys. lb. 2.35 - 2.40
Cresol, tech., dms., c.l., works, frt. equald lb. .1425- .148
l.c.l., same basis lb. .1475- .151
tanks, same basis lb. .135 - —
USP, dms., c.l., same basis lb. .1450- .1505
l.c.l., same basis lb. .15 - .1535
tanks, same basis lb. .1375- —
Crotonaldehyde, 91-93%, dms., c.l works lb. .16½- .20
l.c.l., works lb. .17 - .20
Cryolite, nat., dealers, bgs., c.l., works, 100 lbs. 10.00 - —
bbls., l.c.l., works 100 lbs. 10.75 -11.00
Cube root, powd., 5% rotenone, bgs., ton lots, works lb. .30 - —
extract liquid 1% rotenone, dms., works gal. 1.50 - —
Cubeb berries, XX NF bgs lb. .40 - .45
powd., cs. lb. .50 - .55
Culvers root, bbls lb. .55 - .65
Cumene, dms., c.l. lb. .08 - —
l.c.l. lb. .09 - —
tanks gal. .53 - .56
Cumin seed, Morocco, bgs lb. .23½- .24
Persian, bgs., futures lb. .22½- .23
Turkish, futures, bgs lb. .21½- .22
Cutch, extract, 55% tannin, bgs., ex dock lb. .08¼- —
Cyanamide, fertilizer mixing grades, 20.6% N, gran., bulk, Niagara Falls, Ont., contracts, bulk, unit-ton 2.85 - —
pulv., 21% N., bgs., same basis, unit-ton 2.75 - —
Cyclohexane, tech., dms., c.l., works. lb. .09½- .12¼
l.c.l., works lb. .10 - .13
tanks, works lb. .08 - .11½
Cyclohexanol, tech., dms., c.l., works, lb. .21½- —
l.c.l., works lb. .22 - —
tanks, works lb. .20 - —
Cyclohexanone, tech., dms., c.l., works lb. .26½- .30
l.c.l., works lb. .27 - .31
tanks, works lb. .25 - .29
Cyclohexylamine, dms., works lb. .34 - —

Customers frown when the emulsion breaks down!

Get a more stable mineral oil emulsion, longer shelf life through KRAYSTAY, Kraft's pure vegetable stabilizer with unusual emulsifying properties

Laxatives based on mineral oil emulsions look mighty unpalatable when the emulsion breaks down—and that's not good for profitable repeat sales.

For added protection, more and more progressive manufacturers are switching to Kraystay, made with pure, highly-refined vegetable gelose Kraft extracts from edible Irish moss. For Kraystay—by itself or in combination with compatible gums—possesses remarkable emulsifying properties that produce more stable emulsions and prolong the product's shelf life.

Kraystay is important to manufacturers in another way—it provides exceptionally fine control in the making of solutions of *any desired viscosity*.

A FINER STABILIZER . . . WITH MANY USES

By varying the proportions, Kraystay will show unusual stabilizing, emulsifying, thickening, suspending or gelling properties in products of medium or low acidity.

Kraystay 16-8 is an excellent base for emulsions or pastes. When you add potassium chloride, it retains high gel strength at temperatures up to 240° F. Kraystay 16-14 combines low viscosity with gel strength.

To find out more about Kraystay, call or write Kraft today. Kraft Foods Company, Dept. OP-15, 500 Peshtigo Court, Chicago 90, Ill.

NEW! Two new additions to the Kraft line of quality stabilizers:
NEW! *Kraft Blue Label edible Algin*
Kraft Blue Label non-edible Algin

GELOSE FROM THE SEA!
The clear, pure vegetable gelose used in making Kraystay comes from these minute fronds of edible Irish moss. Taken from the cold ocean floor, they form the basis of this consistently efficient stabilizer whose uniform high quality is guarded by modern, scientific laboratory controls.

KRAYSTAY

MADE BY KRAFT

A NEW DEVELOPMENT IN VEGETABLE STABILIZERS

Improve Your Products by adding

NACCONOL* NR

AMERICA'S LEADING SYNTHETIC DETERGENT

WETS • WASHES • DISPERSES • EMULSIFIES • FOAMS
in hot or cold solutions at any pH AT ONE LOW COST

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Cyclopropane—Dyes, Coaltar, Certified Colors

Cyclopropane, USP, 2 lb. cyls, works, cyl. 40.00 - —
6 oz. cyls., works cyl. 10.50 - —
Hospitals, cyls., 40 gal. lots gal. .32 - —
100-gal. lots gal. .31 - —
200-gal. lots gal. .30 - —

D

2, 4-D, fib., dms., c.l., works, frt., equald lb. .75 - —
l.c.l., same basis lb. .83 - .90
Damiana leaves, bls lb. .45 - .50
Dandelion root, bls lb. .35 - .40
DDD, tech., fine grd., fib. dms., c.l., works lb. .51 - —
l.c.l., works lb. .51½- —
lump, fib. dms., c.l., works lb. .49 - —
l.c.l., works lb. .49½- —
DDT, fiber dms., c.l., works lb. .31 - —
smaller lots, works lb. .31 - .34
Decanol, normal, tech., dms., dlvd lb. .35 - —
Deertongue leaves, bls lb. .35 - .40
Defluorinated phosphate, 65% b.p.l., paper bgs., works ton 44.15 -55.75
Rock, paper bgs., works ton 34.25 - —
Degras, common, bbls lb. .11 - .12
Neutral, less 2% ffa., bbls lb. .20 - .22
over 2% ffa., bbls lb. .19 - .21
Derris root, 5% rotenone, powd lb. .33 Nom.
Dextrin, corn, British gum, paper bgs., c.l. 100 lbs. 7.12 - —
Chicago 100 lbs. 6.50 - —
l.c.l. 100 lbs. 7.27 - —
Dextrin, canary, paper bgs., c.l. 100 lbs. 6.86 - —
Chicago 100 lbs. 6.24 - —
l.c.l. 100 lbs. 7.01 - —
dark, paper bgs., c.l. 100 lbs. 7.06 - —
Chicago 100 lbs. 6.34 - —
l.c.l. 100 lbs. 7.11 - —
white, paper bgs., c.l. 100 lbs. 6.71 - —
Chicago 100 lbs. 6.09 - —
l.c.l. 100 lbs. 6.86 - —
Corn dextrin in cotton bgs., 17c. higher.
Potato, bgs lb. .10½- 10¾
Dextrose, USP, dms lb. .17¾- —
Diacetone (see Alcohol, diacetone).
Diacetyl, flavor grade, bots lb. 5.00 - 5.55
laboratory grade, bots 100 grams. 4.50 - —
tech., bots., works lb. 3.00 - —
Diamyl ether (see Ether, amyl)
Phthalate, dms., c.l., dlvd. E lb. .35½- —
l.c.l., dlvd. E lb. .36½- —
tanks, dlvd. E lb. .34 - —
Diamylphenols, mixed, dms., c.l., works lb. .31 - —
l.c.l., works lb. .32 - —
tanks, works lb. .30 - —
Dianisidin, dms lb. 1.65 - —
Diatomaceous earth, dom., bgs., c.l., Atlantic coast ton. 50.00 -52.00
California ton. 38.00 -40.00
l.c.l., ex whse ton. 80.00 - —
purified, bgs., c.l., Atl. coast ton. 62.00 - —
California ton. 50.00 - —
l.c.l., ex whse ton. 90.00 - —
Imported, Algerian, bgs., c.l., Atlantic coast ton. No prices.
Mexican, white, bgs., c.l., Atlantic coast lb. .03 - —
l.c.l., Atlantic coast lb. .06 - —
Dibenzyl sebacate, dms., c.l., works lb. .69 - —
l.c.l., works lb. .69½- —
tanks, works lb. .67½- —
Dibutoxyethyl sebacate, dms., c.l., works lb. .57 - —
l.c.l., works lb. .57½- —
tanks, works lb. .55½- —
Dibutyl phthalate, dms., c.l., dlvd lb. .31½- —
l.c.l., dlvd lb. .32½- —
tanks, dlvd lb. .30 - —
Sebacate, dms., c.l., works lb. .55½- —
l.c.l., works lb. .56 - —
tanks, works lb. .54 - —
Tartrate, dms., works, frt. alld lb. .92 - 1.02
Dibutylamine, dms., c.l., frt. alld. lb. .51½- .52½
l.c.l., frt. alld lb. .52½- .53½
tanks, frt. alld lb. .49 - .50
Dicapryl sebacate, dms., c.l., works. lb. .57½- —
l.c.l., works lb. .58 - —
tanks, works lb. .56 - —
Dichloroanilin, dms., works lb. .75 - .80
Dichlorodiphenyldichloroethane (see DDD).
Dichlorodiphenyltrichloroethane (see DDT).
Dichloroethyl ether (see Ether, dichloroethyl).
Dichlorophenol, dms., c.l., frt. equald lb. .27 - —
l.c.l., frt. equald lb. .28 - —
Dicyclohexylamine, dms., works lb. .38 - —
Dicyclohexylphthalate, fib. dms., c.l., works lb. .42½- —
l.c.l., same basis lb. .43 - —
Diethanolamine, dms., c.l., E lb. .26½- —
l.c.l., same basis lb. .27½- —
tanks, same basis lb. .25 - —
Diethyl carbonate, dms., c.l., frt. alld lb. .36½- —
l.c.l., same basis lb. .37½- —
tanks, same basis lb. .35 - —
Diethyl maleate, dms., c.l., dlvd lb. .50½- —
l.c.l., dlvd lb. .51½- —
tanks, dlvd lb. .50 - —
Oxalate, dms., c.l., frt. alld lb. .34½- .35¼
l.c.l., same basis lb. .35½- .36½
tanks, same basis lb. .34 - —
Phthalate, dms., c.l., dlvd lb. .26 - .27¼
l.c.l., dlvd lb. .27 - .28
tanks, dlvd lb. .24½- .26
Sulphate, dms., c.l., works lb. .14 - —
l.c.l., works lb. .15 - —
tanks, works lb. .13 - —
Diethylamine, dms., c.l., works lb. .69 - —
l.c.l., works lb. .71 - —
tanks, works lb. .65 - —
Diethylaminoethanol, dms., i.c.l., works, frt. alld. E. of Miss lb. .75 - —
Diethylanilin, dms lb. .48 - .57
Diethyleneglycol, dms., c.l., frt. alld. E lb. .17¼- —
l.c.l., same basis lb. .18½- —
tanks, same basis lb. .16 - —
Diethylether, dms., l.c.l., works lb. .40 - —
Monobutylether, dms., c.l., works lb. .26 - —
l.c.l., works lb. .26½- —
tanks, works lb. .24½- —
Monobutylether acetate, dms., c.l., works lb. .27½- —
l.c.l., works lb. .28 - —
Monoethylether, dms., c.l., works. lb. .18 - —
l.c.l., works lb. .18½- —
tanks, works lb. .16½- —
Monoethylether, acetate, dms., c.l., works lb. .24 - —
l.c.l., works lb. .24½- —
Monomethylether, dms., c.l., works lb. .22 - —
l.c.l., works lb. .22½- —
tanks, works lb. .20½- —
Diethylenetriamine, dms., c.l., works. lb. .51½- —
l.c.l., works lb. .52 - —
tanks, works lb. .50 - —
Diethylstilbestrol, USP, bots kilo. 260.00 -300.00
Digitalin, cryst., bots gram. 15.00 -18.00
powd., bots oz. 25.00 -30.00
Digitalis leaves, dms. lb. .80 - 1.25
Diglycol laurate, dms lb. .34 - .36
Oleate, light, dms lb. .26 - .28
Stearate, dms lb. .27 - .29
Dihexyl sebacate, dms., c.l., works. lb. .45 - —
l.c.l., works lb. .45½- —
tanks, works lb. .43½- —
Dihydrostreptomycin hydrochloride and sulphate, hospitals, vials. gram. .80 - —
wholesalers, vials gram. .64 - —
Dihydroxydichlorodiphenylmethane, dms lb. .95 - 1.00
smaller containers lb. 1.05 - 1.40
Di-isobutyl ketone, dms., c.l., works. lb. .14 - —
l.c.l., works lb. .14½- —
tanks lb .12½- —
Di-isobutylene, dms., c.l., works lb. .07 - —
l.c.l., works lb. .07½- —
tanks, works lb. .05½- —
Di-isooctyl phthalate, dms., c.l., dlvd. lb. .42½- —
l.c.l., same basis lb. .43½- —
tanks, same basis lb. .41 - —
Dillseed, natural, bgs lb. .11½- .12
dewhiskered, bgs lb. .12 - .12¼
Dimethyl phthalate, dms., c.l., dlvd. lb. .26½- —
l.c.l., dlvd lb. .27 - —
tanks, dlvd lb. .25 - —
Sebacate, dms., c.l., works lb. .72½- —
l.c.l., works lb. .73 - —
tanks, works lb. .71 - —
Sulphate, 55-gal. ret., dms., c.l., works lb. .15 - —
l.c.l., works lb. .16 - —
10-gal. ret. dms., works lb. .16½ - —
Dimethylamine, 25%-40%, dms., c.l., works, basis 100% lb. .37 - —
l.c.l., works, basis 100% lb. .38 - —
tanks, works, basis 100% lb. .33 - —
Dimethylanilin, dms., c.l lb. .21 - .25¾
l.c.l. lb. .25 - .26¾
Dinitroanilin, dms., frt. equald lb. .50 - —
Dinitrobenzene, bbls lb. .16 - .23
Dinitrochlorobenzene, dms lb. .14 - .18
Dinitrophenol, bbls lb. .28 - .32
Dinitrotoluene, oily, dms lb. .07 - .09
refd., dms lb. .17 - .21
Dinonylnapnthalene, c.l., dms., works lb. .13 - —
l.c.l., dms., works lb. .14 - —
tanks, works lb. .12 - —
Dioctyl phthalate, dms., c.l., frt. alld lb. .42½- —
l.c.l., frt. alld lb. .43½- —
tanks, frt. alld lb. .41 - —
Diorthotolylguanidin, dms., ton lots, dlvd lb. .48 - —
smaller lots, dlvd lb. .50 - —
Dioxan, dms., c.l., frt. alld lb. .25 - —
l.c.l., same basis lb. .25½- —
tanks, same basis lb. .23½- —
Dip oil (see Tar acid oil).
Dipentaerythritol, bgs., l.c.l., works lb. .34 - —
Dipentene, dest.-dist., dms. incl., c.l., works, South gal. .35 - .53
l.c.l., same basis gal. .36 - .55
N. Y. whse gal. .50 - —
steam-dist., dms., c.l., whse., NYC. gal. .59 - —
l.c.l., same basis gal. .53 - .62
Diphenyl, bbls., c.l., works lb. .15 - —
l.c.l., works lb. .16 - .20
Oxide, perfume grade, cns., dms. lb. .43 - .48
Diphenylamine, bbls. lb. .26 - —
Diphenylguanidin, dms., ton lots lb. .39 - —
smaller lots lb. .40 - —
Diphenylhydantoin-sodium, USP, dms. lb. 3.50 - 3.75
Dipropyleneglycol methylether, dms., c.l., frt. equald lb. .18 - —
l.c.l., same basis lb. .18½- —
tanks, same basis lb. .16½- —
Ditertiarybutylmetacresol, dms., c.l., works lb. .32 - —
l.c.l., works lb. .33 - —
tanks, works lb. .31 - —
Ditertiarybutylparacresol, dms., c.l., works lb. .94 - —
l.c.l., works lb. .95 - —
Divi-divi, 43% tannin, bgs., bls., c.l., U. S. ports, ex deck ton. 64.00 -66.00
Divinylbenzene, 18%, dms., c.l., works lb. .25 - —
l.c.l., works lb. .26 - —
tanks, works lb. .24 - —
40%, dms., c.l., works lb. .55 - —
l.c.l., works lb. .60 - .65
Dodecyltoluene, c.l., dms., works lb. .14 - —
l.c.l., dms., works lb. .15 - —
tanks, works lb. .13 - —
Doggrass root, dom., cut, bls lb. .20 - .22
imp., NF, cut, bls lb. .35 - .40
Dogwood, Jamaica, bark, bls lb. .12 - .14
Dragon's blood, drops, cs lb. .45 - .47
mass, cs lb. 1.10 - 1.25
reeds, cs lb. 1.75 - 2.00
Dyes, coaltar, certified colors for food, drugs and cosmetics, 5-lb. and 1-lb. lots:—
Blue, FD&C, No. 1, cns. lb. 17.00 -17.60
No. 2, cns. lb. 17.00 -17.60
Green, FD&C, No. 1, cns. lb. 17.00 -17.60
No. 2, cns. lb. 22.20 -22.85
No. 3, cns. lb. 35.25 -35.90
Orange, FD&C, No. 1, cns. lb. 3.65 - 3.75
No. 2, cns. lb. 4.55 - 4.75

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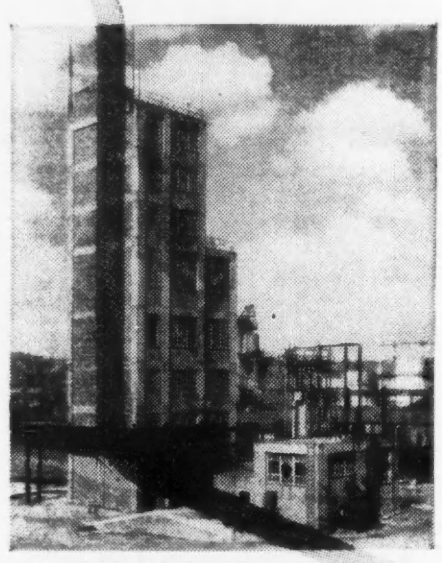
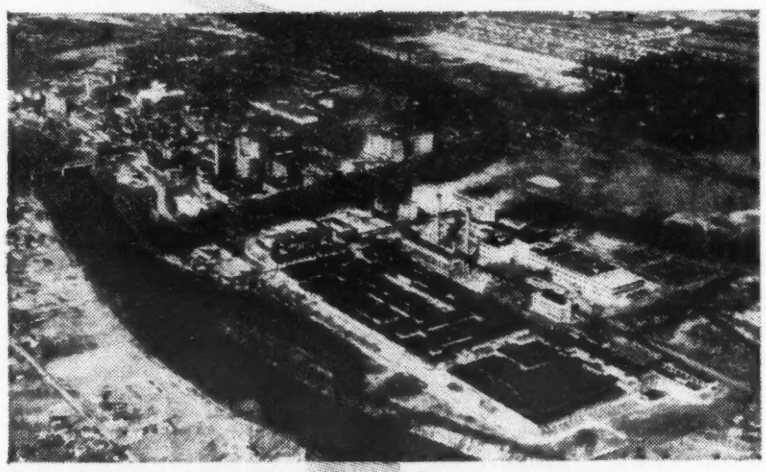

Acetone building in Tennessee Eastman's Acid Division.


The Tennessee Eastman Corporation plant in Kingsport, Tennessee.

Tennessee Eastman Corporation
(Subsidiary of Eastman Kodak Company)
KINGSPORT, TENNESSEE

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Dyes, coaltar, certified colors for food, drugs and cosmetics, 5-lb. and 1-lb. lots:—

Red, FD&C, No. 1, cns.	lb.	7.55	7.85
No. 2, cns.	lb.	4.00	4.10
No. 3, cns.	lb.	22.20	22.85
No. 4, cns.	lb.	7.20	7.50
No. 32, cns.	lb.	5.30	5.40
Yellow, FD&C, No. 1, cns.	lb.	10.50	11.05
No. 3, cns.	lb.	3.30	3.40
No. 4, cns.	lb.	3.30	3.40
No. 5, cns.	lb.	4.00	4.10
No. 6, cns.	lb.	4.00	4.10

Dyes, coaltar, certified colors for drugs and cosmetics, 1-lb. lots:—

Black, D&C, No. 1, cns.	lb.	10.95	—
Blue, D&C, No. 4, cns.	lb.	13.55	—
Brown, D&C, No. 1, cns.	lb.	16.10	—
Green, D&C, No. 5, cns.	lb.	16.10	—
No. 6, cns.	lb.	16.10	—
No. 7, cns.	lb.	14.80	—
Orange, D&C, No. 3, cns.	lb.	10.95	—
No. 4, cns.	lb.	20.05	—
No. 5, cns.	lb.	5.70	—
No. 10, cns.	lb.	20.70	—
Red, D&C, No. 8, cns.	lb.	3.75	—
No. 9, cns.	lb.	3.75	—
No. 10, cns.	lb.	3.00	—
No. 11, cns.	lb.	2.25	—
No. 12, cns.	lb.	3.00	—
No. 17, cns.	lb.	10.95	—
No. 18, cns.	lb.	24.00	—
No. 21, cns.	lb.	4.70	—
No. 22, cns.	lb.	10.95	—
No. 28, cns.	lb.	24.65	—
No. 33, cns.	lb.	17.45	—
Violet, D&C, No. 1, cns.	lb.	16.10	—
No. 2, cns.	lb.	16.10	—
Yellow, D&C, No. 7, cns.	lb.	10.95	—
No. 8, cns.	lb.	10.95	—
No. 10, cns.	lb.	13.50	—
No. 11, cns.	lb.	13.50	—
No. 22, cns.	lb.	9.15	—
No. 33, cns.	lb.	14.65	—
No. 37, cns.	lb.	13.55	—

Dyes, coaltar, certified colors for external use in drugs and cosmetics, 1-lb. lots:—

Green, Ext. D&C, No. 1, cns.	lb.	16.10	—
Red, Ext. D&C, No. 1, cns.	lb.	13.50	—
Yellow, Ext. D&C, No. 1, cns.	lb.	10.95	—

Dyes, coaltar, for general use in cloth dyeing (numbers are those of the Colour Index scale or prototype).

20 Chrysodine G.	lb.	.59	—
27 Orange G.	lb.	.71	—
31 Amido naphthol red G.	lb.	.59	—
36 Alizarine yellow 2G.	lb.	.82	—
40 Alizarine yellow R	lb.	.97	—
57 Amido naphthol red 6B	lb.	.97	—
79 Ponceau R	lb.	.68	—
151 Orange II	lb.	.44	—
165 Red lake C	lb.	1.05	—
176 Red lake A	lb.	.80	—
179 Azo rubine	lb.	.95	—
180 Diamond blue 3B	lb.	.84	—
185 Cochineal red A	lb.	.85	—
202 Chrome blue black R	lb.	.62	—
203 Chrome black T	lb.	.72	—
208 Sulphon acid blue R	lb.	.83	—
216 Acid alizarin red B	lb.	.77	—
234 Resorcin brown	lb.	.82	—
246 Naphthol blue black	lb.	.78	—
278 Benzo fast red SBL	lb	2.96	—
289 Sulphon cyanine 5R extra	lb.	1.00	—
299 Diamond black F	lb.	1.38	—
304 Nerol 2B	lb.	1.43	—
326 Benzo fast orange S	lb.	1.57	—
332 Bismarck brown R	lb.	.78	—
365 Chrysophenine	lb.	2.14	—
382 Diamine scarlet B	lb.	1.56	—
401 Diamine black BH	lb.	.58	—
406 Benzo blue 2B conc	lb.	.98	—
419 Diamine fast red F	lb.	1.05	—
420 Diamine brown M	lb.	.82	—
448 Benzo purpurine 4B	lb.	1.03	—
518 Diamine sky blue FF	lb.	1.48	—
561 Trisulphon brown B	lb.	1.78	—
581 Direct deep black EW extra	lb.	.81	—
593 Diamine green B	lb.	.60	—
598 Congo brown G	lb.	1.20	—
620 Sun yellow	lb.	.84	—
639 Xylene light yellow	lb.	1.77	—
640 Tartrazine	lb.	1.34	—
655 Auramine	lb.	1.69	—
657 Malachite green	lb.	1.93	—
662 Brilliant green	lb.	2.55	—
667 Brilliant milling green B	lb.	3.27	—
671 Glaucine	lb.	1.54	—
680 Methyl violet B	lb.	.95	—
681 Crystal violet	lb.	1.91	—
698 Formyl violet S4B	lb.	1.51	—
720 Chrome azurol B	lb.	3.60	—
729 Victoria blue B	lb.	2.68	—
737 Wool green S	lb.	2.14	—
749 Rhodamine B	lb.	3.85	—
814 Chloramine yellow	lb.	2.76	—
841 Safranine	lb.	2.58	—
865 Nigrosine WSJ 78	lb.	.56	—
922 Methylene blue GXX	lb.	1.28	—
969 Hydron blue R	lb.	.72	—
978 Sulphur black T extra	lb.	.28½	—
1027 Alizarin VI	lb.	.64	—
1034 Alizarin red S	lb.	2.30	—
1054 Alizarin saphiro B	lb.	2.59	—
1078 Alizarin cyanine green	lb.	2.61	—
1085 Alizarin blue black B	lb.	2.13	—
1086 Indanthrene golden orange G, single paste	lb.	1.96	—
double paste	lb.	3.92	—
1099 Indanthrene dark blue BO, single paste	lb.	1.72	—
1101 Caledon jade green	lb.	2.32	—
1106 Indanthrene blue RS, single double paste	lb.	2.52	—
double paste	lb.	2.13	—
1113 Indanthrene blue GCD, double paste	lb.	1.72	—
1150 Indanthrene olive R, single paste	lb.	1.08	—
1151 Indanthrene brown R, single paste	lb.	1.65	—
double paste	lb.	3.29	—
1212 Indanthrene red violet RH, single paste	lb.	1.54	—
1217 Helindon orange R, single paste	lb.	1.57	—
p-4 Acid anthracine brown P.G.	lb.	2.48	—
p-14 Anthracene chromate brown EB	lb.	1.25	—
p-24 Benzo fast black L	lb.	1.94	—
p-80 Diazo brilliant scarlet ROA.	lb.	2.55	—
p-202 Zambesi black V	lb.	1.07	—
p-244 Celliton scarlet B	lb.	1.37	—
p-313 Naphthol AS-SW	lb.	2.74	—

Dyes, coaltar, for stains, oil-soluble, 100-lb. dms., sellers' works.

Black, blue, No. 550	lb.	.72	—
Jet, No. 551	lb.	.79	—
Brown, R, conc	lb.	1.44	—
Orange R, brilliant	lb.	.80	—
Red 4 B, conc	lb.	1.22	—
Yellow, C	lb.	1.05	—
FN, conc	lb.	1.08	—

Dyes, coaltar, for stains, spirit-soluble, 100-lb. dms., sellers' works.

Auramine, O	lb.	1.66	—
Black, basic, blue	lb.	1.08	—
Jet	lb.	1.08	—
Blue, methylene, 2 B, conc	lb.	1.44	—
Brown, Bismarck, R, conc	lb.	.78	—
Chrysodine, R, extra	lb.	.54	—
Y, extra	lb.	.58	—
Fuchsine, conc	lb.	2.84	—
Green, malachite, conc	lb.	1.80	—
Rhodamine, B	lb.	3.97	—
Safranine, Y, conc	lb.	2.66	—
Violet, methyl, S	lb.	1.08	—

Dyes, coaltar, for stains, water-soluble, 100-lb. dms., sellers' works.

Black, acid blue, B, extra	lb.	.76	—
Orange, acid, Y, conc	lb.	.43	—
Rhodamine, azo- R, extra, conc.			
Rhodamine, R, extra, conc	lb.	3.97	—
Scarlet, croceine, MOO	lb.	1.33	—
Yellow, azo-, conc	lb.	.32	—
Fast light, 3 G, extra	lb.	1.99	—
Methanil, conc	lb.	.83	—

Oil-soluble, spirit-soluble, water-soluble dyes in kegs, 3c. higher; tins, 10c. higher.

E

Echinacea root, bls	lb.	.45	.55
Egg albumen (see Albumen).			
Yolk, dried, dom., bbls	lb.	1.15	1.20
tanners, bbls	lb.	.06½	.07
Elder flowers, bright, bls	lb.	.45	.50
Elecampane root, bls	lb.	.25	.28
Elm bark, grinding, bls	lb.	.34	.35
powd., bbls., bxs	lb.	.45	.47
select, bndls	lb.	.58	.65
Emetine hydrochloride, USP, bots	oz.	38.75	42.00
Ephedra herb, bls	lb.	.18	.37
Ephedrine, synthetic, USP, anhydrous, bots., 100 ozs	oz.	.98	—
hydrous, bots., 100 ozs	oz.	.92	—
Hydrochloride, tin, 100 ozs	oz.	.75	—
Sulphate, cryst., tins, 100 ozs.	oz.	.72	—
powd., tins, 100 ozs	oz.	.73	—
Epichlorohydrin, dms., c.l., works	lb.	.36½	—
l.c.l., works	lb.	.37	—
tanks, works	lb.	.35	—
Epinephrine, synth., USP, bots	gram	.60	.70
Epsom salt, tecn., bgs., c.l., works.	100 lbs.	2.15	—
l.c.l., works	100 lbs.	2.90	3.15
USP, cryst., bgs., c.l., works.	100 lbs.	2.35	—
l.c.l., 5,000 lbs., 1 withdrawal	100 lbs.	3.10	—
smaller lots	100 lbs.	3.35	—
Ergot, NF, dms., tin-lined	lb.	1.45	1.50
Eserine, bots	oz.	55.00	56.00
Salicylate, USP, bots	oz.	38.75	39.75
Sulphate, bots	oz.	60.00	61.00
Ether, acetate (see Ethyl acetate).			
Amyl, dms., c.l., works	lb.	.095	—
l.c.l., works	lb.	.102	—
tanks, works	lb.	.085	—
Butyl, dms., c.l., dlvd	lb.	.30½	—
l.c.l., dlvd	lb.	.31	—
tanks, dlvd	lb.	.29	—
Butyric (see Ethyl butyrate).			
Dichloroethyl, purif., dms., works.	lb.	16½	—
l.c.l., same basis	lb.	.17	—
tanks, same basis	lb.	.15	—
Divinyl, USP, anesthesia, bots., 50 cc, hospitals	bot.	1.00	—
75 cc, hospitals	bot.	1.56	—
Ethyl, absolute, ACS, dms	lb.	.30	—
Anesthesia, USP, hospital, cns	lb.	.75	.90
Industrial, USP, dms., c.l., dlvd	lb.	.12	—
l.c.l., same basis	lb.	.13	—
tanks, same basis	lb.	.10	—
synthetic, dms. incl., frt. alld	lb.	.11½	—
l.c.l., same basis	lb.	.12½	—
tanks, same basis	lb.	.10	—
Isopropyl, dms., c.l., dlvd	lb.	.06	—
l.c.l., dlvd	lb.	.06½	—
tanks, dlvd	lb.	.04½	—
Nitrous, conc., bots., 100 lbs.	lb.	1.03	1.10

Dyes, Coaltar, Certified Colors—Ethyl Nitrite

Ethyl acetate, natural, fermentation, 85-88%, dms., c.l., frt. alld.	lb.	.11½	—
l.c.l., frt. alld	lb.	.12½	—
tanks, frt. alld	lb.	.10	—
95-98%, dms., c.l., frt. alld.	lb.	.11¾	—
l.c.l., frt. alld	lb.	.12¾	—
tanks, frt. alld	lb.	.10¼	—
99%, dms., c.l., frt. alld.	lb.	.12	—
l.c.l., frt. alld	lb.	.13	—
tanks, frt. alld	lb.	.10½	—
synthetic, 85-90%, dms., c.l., frt. alld	lb.	.11½	—
l.c.l., frt. alld	lb.	.12½	—
tanks, frt. alld	lb.	.10	—
95-98%, dms., c.l., frt. alld	lb.	.11¾	—
l.c.l., frt. alld	lb.	.12¾	—
tanks, frt. alld	lb.	.10¼	—
99%, dms., c.l., frt. alld	lb.	.12¼	—
l.c.l., frt. alld	lb.	.13¼	—
tanks, dlvd	lb.	.10¾	—
Acetoacetate, dms., c.l., dlvd	lb.	.47½	—
l.c.l., dlvd.	lb.	.48½	—
tanks, dlvd.	lb.	.46	—
Benzoate, dms	lb.	.68	—
Betaethoxypropionate, dms., works	lb.	.70	—
Bromide, tech., 98%, dms	lb.	.39	.41
Butyrate, bots	gal.	4.75	—
cns., works	lb.	.65	.70
dms., works	lb.	.60	—
Carbamate (see Urethane).			
Chloride, tech., tanks	lb.	.13½	—
USP, bbls., cyl	lb.	.20	.22
Cinnamate, cns	lb.	2.30	3.60
Formate, dms	lb.	.38	—
Iodide, bots	lb.	4.08	4.27
Lactate, dms., works	lb.	.41	—
Methycrylate, M-2, dms., works	lb.	.60	—
cns., works	lb.	.63	.67
P-2, cns., works	lb.	.65	—
Myristate, dms., works	lb.	No prices.	
Nitrite (see Ether, nitrous).			

WHEN YOU THINK OF

MERCURY

THINK OF

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FINE CHEMICALS Mallinckrodt SINCE 1867

Mallinckrodt Mercurials

CALO-CLOR®
CALOGREEN®
Cinnabar (Mercury Sulfide Red)
Mercurial Ointment Strong USP XIII
Mercurial Ointment Mild USP XIII 10% (Blue Ointment)
Mercurial Ointment Mild USP XI 30%
Mercuric Acetate
Mercuric Acetate A. R.
Mercuric Bromide A. R. (ACS)
Mercuric Chloride N. F. VIII Crystals
Mercuric Chloride N. F. VIII Granular (Mercury Bichloride) (Corrosive Sublimate)
Mercuric Chloride N. F. VIII Powder 80 Mesh
Mercuric Chloride A. R. (Gran) (ACS)
Mercuric Cyanide A. R.
Mercuric Cyanide N. F. VIII
Mercuric Iodide Red N. F. VIII
Mercuric Iodide Red A. R.
Mercuric Nitrate Granulated
Mercuric Nitrate A. R.
Mercuric Nitrate Ointment N. F. VIII (Citrine Ointment)
Mercuric Oxide Red, Technical
Mercuric Oxide Red N. F. VIII
Mercuric Oxide Red N. F. VIII Powder
Mercuric Oxide Red A. R.
Mercuric Oxide Yellow, Technical
Mercuric Oxide Yellow USP XIII
Mercuric Oxide Yellow A. R. (ACS)
Mercuric Salicylate N. F. VIII
Mercuric Sulfate Purified Granulated
Mercuric Sulfate A. R.
Mercurous Chloride Mild USP XIII (Calomel)
Mercurous Chloride Mild USP XIII (Precipitated Calomel)
Mercurous Chloride A. R. (ACS) (Powd)
Mercurous Iodide Yellow N. F. VIII
Mercurous Nitrate Crystals
Mercurous Nitrate A. R. (Cryst)
Mercurous Sulfate A. R.
Mercury Distilled
Mercury USP XIII Redistilled
Mercury A. R. (ACS)
Mercury Brilliant (Precision Tube Grade)
Mercury Ammoniated USP XIII Powdered
Mercury Mass N. F. VIII (Blue Mass)
Mercury Mass Dry Powder
Mercury (ic) Oleate USP XIII
Mercury with Chalk N. F. VIII
Mixture Corrosive Sublimate and Acid Citric
Mixture Corrosive Sublimate and Ammonium Chloride
Potassium Mercuric Iodide
Pyridylmercuric Acetate Technical
Pyridylmercuric Chloride Technical
Pyridylmercuric Stearate Technical
PYRIDOSE®
SUSPENSION CALO-CLOR®
SUSPENSION CALOGREEN®

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Ethyl Oenanthate—Grease

Ethyl oenanthate, dms. lb. 1.00 - 2.00
Oleate, dms., l.c.l., works lb. .53 - —
Oxalate (see Diethyl oxalate).
Silicate, dist. (see Tetraethyl orthosilicate)
40% available SiO_2, dms., works. lb. .55 - —
Ethylanilin, dms lb. .60 - —
Ethylbenzene, dms., c.l. lb. .14 - —
l.c.l. lb. .15 - —
tanks lb. .13 - —
Ethylcellulose, 5b. dms., 5,000 lbs., works lb. .52 - —
smaller lots, works lb. .54 - .62
Ethylene dichloride, dms., c.l., works, frt. alld. E. of Rockies lb. .09½- —
W. of Rockies lb. .10½- —
l.c.l., works, frt. alld., E. of Rockies lb. .10½- —
W. of Rockies lb. .11½- —
tanks, frt. alld. E. Rockies lb. .08 - —
W. of Rockies lb. .09 - —
Oxide, cyls., c.l., works lb. .23¾- .25
l.c.l., works lb. .24¾- .26
tanks, works and frt. equald. or alld lb. .15¾- .16¾
Trichloride (see Trichloroethane).
Ethylenediamine, tanks, works lb. .50 - —
Ethyleneglycol, dms., c.l., frt. alld. E lb. .16 - —
l.c.l., same basis lb. .17 - —
tanks, same basis lb. .14½- —
Diethylether, dms., l.c.l., works lb. .50 - —
Monobutylether, dms., c.l., works. lb. .21½- —
l.c.l., works lb. .22 - —
tanks, works lb. .20 - —

Ethyleneglycol monoethylether, dms. c.l., works lb. .18 - —
l.c.l., works lb. .18½- —
tanks, works lb. .16½- —
Monoethylether acetate, dms., c.l., works lb. .16½- —
l.c.l., works lb. .17 - —
tanks, works lb. .15 - —
Monomethylether, d m s., c.l., works lb. .19½- —
l.c.l., works lb. .20 - —
tanks, works lb. .18 - —
Monomethylether acetate, dms., c.l., works lb. .24½- —
l.c.l., works lb. .25 - —
tanks, works lb. .23 - —
Monostearate, dms lb. .38 - .40
Ethylethanolamines, mixed, dms., c.l., works lb. .32 - —
l.c.l., works lb. .33 - —
Ethylmorphine hydrochloride, USP, bots oz. 11.85 - —
Ethylorthotoluidine, bbls lb. .80 - —
Ethylvanillin, cns., 5 lbs. or more lb. 6.75 - —
smaller lots lb. 6.80 - 6.90
Eucalyptol, USP, cns., dms. lb. 1.75 - 2.05
Eucalyptus leaves, bls lb. .11 - .14
Eugenol, prime, USP lb. 2.00 - 2.50
Euphorbia pil., herb, bls lb. .13 - .14

F

Feldspar, enamel, 100 mesh, bgs., works ton. 20.00 -22.00
Glass, 20 mesh, bulk, tons, works ton. 11.75 -12.50
bulk, c.l., works ton. 18.00 -20.00
Pottery, bgs., 2 ton lots, works. ton. 20.00 -22.00
bulk, c.l., works ton. 17.00 -19.00

Fennel seed, Argentine, bgs. lb. .09¾- .10½
French, bgs lb. .12 - .12½
Indian, bgs lb. .12 - .12½
Fenugreek, domestic, bgs. lb. No stocks.
Indian, bgs. lb. .11½- .12½
futures, bgs. lb. .10¼- .10½
Moroccan, bgs lb. .11 - .11½
Ferric-ammonium citrate (see iron-ammonium citrate).
Ferric cacodylate (see iron cacodylate).
Ferric glycerophosphate (see Iron glycerophosphate).
Ferric hypophosphite (see Iron hypophosphite).
Ferric sulphate (see Iron sulphate, ferric).
Film scrap, colored, cs., works lb. .11 - —
water-white, cs., works lb. .13 - —
Fir balsam, Canada, cns gal. 32.50 -33.00
Oregon, bbls gal. 2.35 - 2.45
Fishberries, bgs lb. .24 - .25
Fishliver oil (see Oil, fishliver).
Fishmeal, ground, 60% protein, bgs., Balto. area ton. 185.00 - —
65% protein, bgs., Balto. area. ton. 190.00 - —
Fishscrap, dried, 60% protein, bulk, Balto. area ton. 175.00 - —
Fleaseed (see Psyllium seed).
Fringetree bark, bls. lb. .45 - .47
Fluorspar, acid grade, bgs., c.l., mines ton. 47.50 - —
l.c.l., mines ton. 49.50 - —
bulk, contract, c.l., mines ton. 42.00 - —
noncontract, c.l., mines ton. 45.00 - —
l.c.l., mines ton. 47.00 - —
ceramic grade, No. 1, ground, 90-92% CaF_2, bulk, c.l., mines net ton. 39.00 -41.00

Fluorspar, washed, gravel, 70% or more, CaF_2, bulk, c.l., mines ton. 35.00 -37.00
65%, bulk, c.l., mines ton. 34.00 -36.00
60%, bulk, c.l., mines ton. 33.00 -35.00
less than 60%, bulk, c.l., mines. ton. 32.00 -34.00
Formaldehyde, USP (inhibited), dms., c.l., E. works lb. .0570- —
l.c.l., E. works lb. .0620- —
tanks, E. works lb. .0370- —
methanol-free (uninhibited), tanks, works lb. .0350- —
Tankcar and tankwagon prices above are on a delivered basis in New England, Eastern New York, N. J., Eastern Penna., and part of Delaware. In states other than Eastern Seaboard, as well as W. of Rockies, prices f.o.b. Texas plants, are .022 for inhibited and .020 for uninhibited.
Fuller's earth, dom., powd., bgs., c.l., Fla., Ga. mines ton. 30.00 - —
Tex., mines ton. 27.00 - —
spent, bulk, Bayonne ton. 2.00 - 4.00
imp., bgs., c.l. ton. 30.00 -40.00
Furfural, tech., dms., c.l., works lb. .12 - —
l.c.l., works lb. .14 - —
tanks, works lb. .09½- —
Fusel oil, refined, dms., c.l. lb. .23½- —
l.c.l. lb. .24½- —
tanks lb. .22 - —
Fustic extract, cryst., No. 1, bbls., l.c.l lb. .42½- —
No. 1A, bbls., l.c.l lb. .41½- —
No. 2, bbls., l.c.l lb. .40½- —
No. 3, bbls., l.c.l lb. .38½- —
liquid, No. 0, bbls., l.c.l lb. .22 - —
No. 1, bbls., l.c.l lb. .20½- —
No. 2, bbls., l.c.l lb. .19½- —
No. 3, bbls., l.c.l lb. .17 - —
solid, No. 1, bxs., l.c.l lb. .28 - —

G

G salt, bbls lb. .59 .60
Galangal root, bls. lb. .14 .15
Gambier, plantation, bgs., ex dock lb. No stocks.
Extract, bbls No stocks.
Gammapicoline, 95%, dms., c.l., works lb. 1.00 1.05
Gasoline, at refinery, ex tax, Arkansas, 74-76 octane, tanks, gal. .10375- —
Bayonne, 76 octane, tanks. gal. .116 - —
Gulf coast, 74-76 octane, tanks, gal. .10 .11
Group 3, 74-76 octane, tanks, gal. .10 - .10375
Pennsylvania, western, U. S. motor, 74-76 octane, leaded tanks gal. .12 - —
natural, 26-70 octane, group 3, tanks gal. .055 - —
Gelatin, silver label, cs., works lb. 1.20 - —
Gelsemium root, bls lb. .25 - .30
Gentian root, bls lb. .13 - .16
grd., bbls., bxs lb. .17 - .19
powd., bbls., bxs lb. .18 - .20
Geraniol, extra, cns., dms lb. 2.50 - 2.75
prime lb. 2.20 - 2.40
Geranyl acetate, cns lb. 2.65 3.90
Ginger, oleoresin, bots lb. 4.50 - 4.75
Root, African, bls lb. .33 - .34
Cochin, bleached, bgs lb. No stocks.
unbleached, bgs lb. .20 Nom.
Jamaica, No. 1, bgs lb. .40 - .41
No. 2, bgs lb. .36 - .37
No. 3, bgs lb. .35 - .36
Rhattoon, bgs lb. .32 - .33
Ginseng root, cs lb. 12.00 -16.00
Glauber's salt, anhyd. (see Sodium sulphate).
cryst., bgs., c.l., works 100 lbs. 2.00 —
l.c.l, bgs., works 100 lbs. 2.25 2.50
Glue, bone, calcium type, 24 millipoise, 40 jellygrams, bgs., c.l., East of Midwest lb. .14½- —
40-65, bgs., c.l., same basis lb. .16½- —
65-90, bgs., c.l., same basis lb. .18 - —
95-145, bgs., c.l., same basis lb. .22½- —
145-180, bgs., c.l., same basis lb. .25 - —
Bone glue, l.c.l., prices 1c. higher than c.l.
ground, 40-45 jelly-grams, bgs., c.l. (50,000 lbs.), dlvd lb. .16 - —
l.c.l., same basis lb. .17 - —
pulverized, 50-60 jellygrams, bgs., c.l., (50,000 lbs.) same basis lb. .18½- —
l.c.l., same basis lb. .19½- —
Hide, 100-121 (jellygrams), bgs., c.l., dlvd lb. .22 - .25
122-149, bgs., c.l., dlvd lb. .23 - .26
150-177, bgs., c.l., dlvd lb. .24 - .27
178-206, bgs., c.l., dlvd lb. .25 - .29
207-236, bgs., c.l., dlvd lb. .26 - .30
237-266, bgs., c.l., dlvd lb. .27 - .31
267-296, bgs., c.l., dlvd lb. .28 - .32
299-330, bgs., c.l., dlvd lb. .29 - .33
331-362, bgs., c.l., dlvd lb. .30 - .33
363-394, bgs., c.l., dlvd lb. .31 - .34
395-427, bgs., c.l., dlvd lb. .32 - .35
428-460, bgs., c.l., dlvd lb. .33 - .36½
461-494, bgs., c.l., dlvd lb. .34 - .38
495-529, bgs., c.l., dlvd lb. .35 - .39
Hide glue, l.c.l., prices 1c. higher than c.l.; bbls., ½c. more than bgs.
Glycerin, crude, saponification, 88%, to refiners, tanks, dlvd lb. .16¾- .18¾
soapylye, 80%, tanks, dlvd lb. .15¼- .18¼
dynamite, dms., c.l., dlvd lb. .24 - —
l.c.l., dlvd lb. .24½- —
tanks, dlvd lb. .23½- —
high gravity, dms., c.l., dlvd lb. .24¼- —
l.c.l., dlvd lb. .24¾- —
tanks, dlvd lb. .23¾- —
refined, BP, 98%, dms., c.l., dlvd. lb. .25½- —
l.c.l., dlvd lb. .26 - —
tanks, dlvd lb. .25 - —
USP, c.p., 95% dms., c.l., dlvd. lb. .24¾- —
l.c.l., dlvd lb. .25¼- —
tanks, dlvd lb. .24¼- —
yellow, distilled, dms., c.l., dlvd lb. .24⅛- —
lb. .24⅛- —
l.c.l., dlvd lb. .24⅝- —
tanks, dlvd lb. .23⅝- —
Glycine USP (see Acid, aminoacetic).
Glycol boriborate, dms lb. .28 - .30
Glyoxal, 30%, dms., c.l., works lb. .17½- —
l.c.l., works lb. .18 - —
tanks, works lb. .17 - —
Gold chloride, acid-brown, bots oz. 22.00 -22.25
acid-yellow, bots oz. 20.00 -20.25
Gold of pleasure seed, bgs lb. 40 41
Goldenseal root, bls lb. 3.65 - 4.00
powd., bxs lb. 4.25 4.50
Gold-sodium chloride, photo, bots oz. 13.50 -14.00
USP IX, bots oz. 14.50 -15.00
Grains of paradise, bgs lb. .28 - .28½
Graphite, imported, amorph., powd., bgs., dlvd lb. .04 .06
crystalline, 88-90%, powd., bgs., ex whse lb. .14 .16
90-92%, powd., bgs., ex whse. lb. .16 .19
97%, powd., bgs., ex whse lb. .22 .25
flake, No. 1, 90-95%, bgs., ctns., ex whse lb. .21 .22
No. 2 whse lb. 23 —
Grease, house, loose, dlvd lb. .04 Nom.
White, choice, loose lb. .05½- —
Wool (see Degras and Lanolin).
Yellow, loose lb. .04⅛- —

Another Celanese First!

FLAKE FORMALDEHYDE

GENERAL PURPOSE PARAFORMALDEHYDE

NOW AVAILABLE IN COMMERCIAL QUANTITIES

AT HALF CURRENT MARKET PRICE

Paraformaldehyde—in flake form—is the latest Celanese research development. It is produced by an entirely new process permitting greatly lowered costs.

Flake formaldehyde has no methanol or other inhibitor present, and contains no buffering salts. Its iron content and other impurities are held to formalin specifications. Paraformaldehyde can now replace formalin in many industrial applications to give definite economic and quality advantages.

CELANESE* FLAKE FORMALDEHYDE
(paraformaldehyde)

opens the way to new developments and improvements in the resin, rubber, textile and organic synthesis fields. This general purpose flake is a mixture of polymethylene glycols having an average degree of polymerization of ten oxymethylene groups. Its short polymer chain length indicates excellent reactivity. Its low water content (9% by wt. max.) minimizes water removal cycles and permits larger batches.

Flake formaldehyde does not dust. It promises easier handling and storage . . . no special facilities are required. It is available in 5, 25, 100 and 300 lb. Fiber Drums.

PROPERTIES AND SPECIFICATIONS

APPEARANCE	hard, pulverable flakes
FORMALDEHYDE CONTENT (% BY WT. MIN.)	91.0%
ACIDITY (% BY WT. AS FORMIC, MAX.)	0.05%
ASH (% BY WT. MAX.)	0.01%
IRON CONTENT (PARTS PER MILLION MAX.)	2
PARTICLE SIZE	passes ½" screen
COLOR (APHA AS 37% SOLN)	10
BULK DENSITY (APPROX.)	0.65
MELTING POINT (SEALED TUBE)	100—125°C
FLASH POINT (TAG OPEN CUT APPROX.)	200
IGNITION TEMPERATURE (APPROX.)	575°F
FLAMMABILITY	combustible solid

Celanese Paraformaldehyde is also available in powder form for special applications. Other types are under development. Write to Product Development Department for New Product Bulletin N-16-I, samples and other information.

CELANESE CORPORATION OF AMERICA, Chemical Division, 56-G, 180 Madison Ave., New York 16

Celanese* CHEMICALS

*Reg. U.S. Pat. Off.

ALCOHOLS · ALDEHYDES · GLYCOLS · KETONES · ACIDS · SOLVENTS · PLASTICIZERS

Green, brilliant, thioflavin, toner, molybdic, kgs., works..lb. 4.25 - 4.50
Tungstic, kgs.,works .....lb. 4.25 - 4.50
Chrome, CP, dark, light, medium, blue content up to 5%, bbls., dlvd., N. of Tenn. and N. C. E. of Miss., including St. Paul, Minneapolis, Davenport, Rock Island, St. Louis..lb. .36 - —
6-10%, bbls., same basis..lb. .37 - —
11-15%, bbls., same basis..lb. .37¾ - —
16-20%, bbls., same basis..lb. .38½ - —
21-25%, bbls., same basis..lb. .39½ - —
26-30%, bbls., same basis..lb. .39¾ - —
31-35%, bbls., same basis..lb. .39½ - —
36-40%, bbls., same basis..lb. .42½ - —
41-45%, bbls., same basis..lb. .44 - —
46-50%, bbls., same basis..lb. .45¾ - —
50% and over, bbls., same basis..lb. .46¾ - —
reduced color, 5%, bbls., same basis lb. .12¾ - —
6-10%, bbls., same basis..lb. .13½ - —
11-13%, bbls., same basis..lb. .14 - —
14-16%, bbls., same basis..lb. .14¾ - —
17-19%, bbls., same basis..lb. .15 - —
20-21%, bbls., same basis..lb. .15¼ - —
22-23%, bbls., same basis..lb. .15½ - —
24-25%, bbls., same basis..lb. .15½ - —
26-27%, bbls., same basis..lb. .16 - —
28-29%, bbls., same basis..lb. .16½ - —
30-31%, bbls., same basis..lb. .17½ - —
32-33%, bbls., same basis..lb. .18¾ - —
34-35%, bbls., same basis..lb. .19¾ - —
36-40%, bbls., same basis..lb. .22½ - —
41-45%, bbls., same basis..lb. .24¾ - —
46-50%, bbls., same basis..lb. .26¼ - —
51-55%, bbls., same basis..lb. .26 - —
56-60%, bbls., same basis..lb. .26½ - —
61-65%, bbls., same basis..lb. .27½ - —
66-70%, bbls., same basis..lb. .28¾ - —

Chrome green prices are ½c. higher dlvd. Ala., Fla., Ga., La. (Shreveport, 1½c.), Miss., N. C., S. C., Tenn., Texas (Dallas, Ft. Worth, 1¼c.; El Paso, 2c.); Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph; 1c. higher dlvd. Pac. coast; for Denver, Pueblo, Salt Lake City, Wichita prices are equalized with Chicago.

Chromium oxide, hydrated, bbls., works..lb. .75 - 1.00
pure, bgs., frt. alld.....lb. .33 - .40
Dyes (see Dyes, coaltar).
Malachite, thioflavin toner, molybdic, bbls., works.....lb. 3.00 - —
Tungstic, bbls., works.....lb. 3.40 - —
Paris (see P).
Phthalocyanin toner, bbls., works..lb. 4.40 - 5.00
Tungstated, brilliant, kgs.....lb. 3.00 - 4.00
Emerald, kgs .....lb. 2.60 - —
Verdigris (see V).
Grindelia robusta herb, bls.....lb. .25 - .30
Guaiac resin, cs.....lb. .48 - .49
Wood, bls.....lb. .35 - .36
Guaiacol, cryst., tins.....lb. No prices.
Liquid, NF, bots., cbys.....lb. 1.90 - 1.95
Carbonate, dms.....lb. 2.95 - 3.00
Guarana, powd., cs.....lb. 1.50 - 1.75
Gum, accroides (see Gum, yacca).
Aloe (see A.)
Ammoniac, tears, cs.....lb. .90 - .95
Arabic, amber, sorts, bgs.....lb. .12 - .14
powdered, USP, bbls.....lb. .20½ - .21
Asafetida (see A).
Asphalthum (see A).
Benzoin, Sumatra, cs.....lb. .45 - .50
Camphor (see C)
Copal, Congo, No. 1, bgs.....lb. .25 - .26
No. 2, bgs.....lb. .18 - .20
No. 3, bgs.....lb. .13½ - .15
Manila, loba, E, bgs.....lb. .25 - .27
C, bgs.....lb. .23 - .24¼
CBB, bgs.....lb. .19 - .20
CNE, bgs.....lb. .13½ - .15
DBB, bgs.....lb. .17½ - .19¼
DK, bgs.....lb. .13 - .14
dust, bgs.....lb. .07 - .08
soft, MA, bgs.....lb. .11 - .13¼
WS, bgs.....lb. .21 - .22
Philippine, pale, chips, bgs...lb. .18½ - .20¼
nubs, bgs. .....lb. .22 - .24
seeds, bgs. .....lb. .15 - .16
sorts, bgs.....lb. .17½ - .19¼
Pontianak, chips, bgs. .....lb. .22 - .24
nubs, bgs.....lb. .32 - .35
Dammar, Batavia, A/D, bgs.....lb. .28 - .30
A/E, bgs.....lb. .22 - .23
dust, bgs.....lb. .08½ - .09½
E, bgs.....lb. .13½ - .14½
East India, batu, bold, bgs..lb. .10 - .11
nubs & chips, bgs. .....lb. .07½ - .09
black, bold, bgs.....lb. .12½ - .13½
unscraped, bgs. .....lb. .09½ - .10½
nubs & chips, bgs. .....lb. .09½ - .10½
pale, chips, bgs. .....lb. .13 - .15
nubs, bgs .....lb. .25 - .27
Singapore, No. 1, bgs.....lb. .33 - .35
No. 2, bgs. .....lb. .22 - .23
No. 3, bgs. .....lb. .10 - .12
dust, bgs. .....lb. .09 - .10
seeds, bgs. .....lb. .13 - .14
Elemi, cns.....lb. .21 - .22
Ester, um-rosin type, dms., c.l., dlvd. Ill., Ind., Ky., Mich., Mid-Atl. States, N. E. States, Minneapolis, N. C., Ohio, St. Louis, St. Paul, Va., W. Va.....lb. .17 - .17¾
wood-rosin type, dms., c.l., dlvd. Ill., Ind., etc..lb. .17 - .17¾
Euphorbium, cs .....lb. .50 - .55
Galbanum, cs.....lb. .98 - 1.00
Gamboge, pipe, cs.....lb. 1.20 - 1.25
powd., bbls.....lb. 1.35 - 1.40
Ghatti, No. 2, bgs.....lb. .35 - .37
No. 3, bgs.....lb. .31 - .33
Guaiac (see Guaiac resin).
Karaya, powd., No. 1.....lb. .51 - .52
No. 2 .....lb. .47 - .48
No. 3.....lb. .39 - .40
Kauri, bgs.....lb. .31½ - .32¾
Locust bean, powd., bgs.....lb. .31½ - .32
Mastic, cs.....lb. 2.25 - 2.30
Myrrh, cs.....lb. .33 - .38
Olibanum, siftings, cs.....lb. .12 - .13
tears, cs.....lb. .22 - .36
Opium (see O).
Red (see Gum, yacca).
Rosin (see R).
Sandarac, cks. .....lb. .90 - .95
Scammony, cs.....lb. 1.50 - 1.55
Sterculia (see Gum, karaya).
Gum, talha, bgs.....lb. .10 - .11
Tragacanth, No. 1, cs.....lb. 3.00 - 3.25
No. 2, cs.....lb. 2.40 - 2.65
No. 3, cs.....lb. 2.00 - 2.25
powdered, USP, bbls.....lb. 1.35 - 1.45
Yacca, bgs.....lb. .06 - —
Gypsum, Keane's cement, paper bgs., c.l., Acme, Tex., frt. equald..ton.22.65 - —
Harlem river, N. Y., frt. equald..ton.28.25 - —
Medicine Lodge, Kan., frt. equald..ton.17.00 - —
New Brighton, N. Y., frt. equald..ton.30.65 - —
Southard, Okla., frt. equald ton.17.00 - —
Sweetwater, Tex., frt. equald..ton.21.45 - —
Plaster of paris, paper bgs., c.l., Acme., Texas, frt. equald. ton.12.50 - —
Blue Rapids, Kans., frt. equald..ton.10.50 - —
Harlem river, N. Y., frt. equald..ton.12.00 - —
Medicine Lodge, Kan., frt. equald..ton.12.50 - —
New Brighton, N. Y., frt. equald..ton.18.00 - —
Saltville, Va., frt equald.. ton. 9.00 - —
Southard, Okla., frt. equald. ton.12.50 - —
Sweetwater, Tex., frt. equald ton.12.50 - —
Stucco, Akron, N. Y., frt. equald
Blue Rapids, Kans., frt. equald..ton. 8.00 - —
Clarence Center, N. Y., frt. equald..ton. 8.00 - —
Fort Dodge, Iowa, frt. equald..ton. 8.00 - —
Gypsum, stucco, Grand Rapids, Mich., frt. equald.....ton. 8.00 - —
Gypsum, Ohio, frt. equald.. ton. 8.00 - —
Harlem river, N. Y., frt. equald..ton. 8.00 - —
National City, Mich., frt. equald..ton. 8.00 - —
New Brighton, N. Y., frt. equald..ton. 8.00 - —
Plasterco, Ga., frt. equald. ton. 8.00 - —
Portsmouth, N.H., frt. equald. ton. 8.00 - —
Roton, Texas, frt. equald. ton. 8.00 - —
Saltville, Va., frt. equald. ton. 9.00 - —
Southard, Okla., frt. equald ton. 8.00 - —
Sweetwater, Texas, frt. equald..ton. 8.00 - —
Terra alba, paper bgs., c.l., Harlem river, N. Y., works..ton.22.50 - —
New Brighton, N. Y., works ton.21.00 - —

H

Hawthorn berries, bgs.....lb. .50 - .57
Heliotropin, cryst., cns.....lb. 2.85 - 3.05
Hellebore root, dom., green, bls..lb. .63 - .65
imp., black, whole, bls.....lb. .23 - .25
ground, bxs.....lb. .28 - .30
powder, bxs.....lb. .30 - .32
white, whole, bls.....lb. .35 - .43
powder, bxs.....lb. .37 - .45

Helonias root, bls.....lb. 1.65 - 1.75
bbls., l.c.l...lb. .45½ - —
No. 1, bbls., l.c.l.....lb. .44½ - —
No. 1A, bbls., l.c.l.....lb. .41½ - —
No. 2, bbls., l.c.l.....lb. .40½ - —
No. 3, bbls., l.c.l.....lb. .38½ - —
No. 4, bbls., l.c.l.....lb. .36½ - —
No. 5, bbls., l.c.l.....lb. .34½ - —
paste, No. 1, bbls., l.c.l.....lb. .19 - —
No. 2, bbls., l.c.l.....lb. .18 - —
No. 3, bbls., l.c.l.....lb. .17 - —
No. 4, (red), bbls., l.c.l...lb. .12½ - —
Hemlock bark extract, 25% tannin, bbls., c.l., works..lb. No stocks.
tanks, works .....lb. No stocks.
Hematine extract, cryst., No. 0,
Henbane leaves, bls.....lb. .30 - .40
Henna leaves, bls.....lb. .21 - .23
powd., bbls., bgs.....lb. .25 - .27
Heptane, industrial, Bayonne, N. J., tanks..gal. .16 - —
group 3, tanks .....gal. .12½ - .13½
Hexalin (see Cyclohexanol).
Hexamethylenetetramine, tech., bgs., 1,000-lb. lots, Perth Amboy or N.Y.C..lb. .25 - —
bbls. .....lb. .25½ - —
smaller lots, bgs., same basis. .....lb. .26 - —
bbls. .....lb. .26½ - —
USP, dms., 500 lbs., or more, same basis..lb. .38½ - —
smaller lots, same basis....lb. .39½ - —
Diphosphate, USP, bots.....kilo.500.00 - —
Hexamine (see Hexamethylene tetramine).
Hexane, industrial, group 3, tanks. gal. .13½ - .14½
Bayonne, N. J., tanks.....gal. .16 - —

FROM ANESTHETICS

TO ANTI-FRECKLE CREAMS

Nothing takes the place of Glycerine

In the manufacture of pharmaceuticals (local and parenteral anesthetics are examples) . . . and in the preparation of cosmetics (like the creams and lotions that help dissolve the pigments in freckles)—glycerine's usefulness is constantly increasing. And here's why—

Glycerine's combination of physical and chemical properties can be matched by no other product. Glycerine is a carrier . . . a solvent . . . a softener . . . an emollient . . . a humectant . . . a preservative. It's safe. It's edible. It's nutritious. It can be applied, in proper dilutions, to *any* part of the body.

"When we're stumped," a leading chemical consultant writes, "we always try glycerine. You'd be surprised how often it works."

That's why—in the pharmaceutical, cosmetic and almost every industry—*Nothing takes the place of glycerine!*

GLYCERINE PRODUCERS' ASSOCIATION
295 Madison Avenue
NEW YORK 17, N. Y.

Technical
GLYCERINE NEWS

GLYCERINE SECTIONS OF BEILSTEIN TRANSLATED! Now available for the first time, an English translation of the Glycerine Sections of Beilstein's famous *Handbuch der Organischen Chemie* (4th Edition). Complete in *one* volume entitled "GLYCERINE AND SOME GLYCERINE DERIVATIVES." Publication authorized by the Attorney General of the United States. Compiled and edited by Dr. R. N. Du Puis, Dr. C. S. Miner, Jr. and J. B. Segur—long acknowledged as authorities in the field of Glycerine and its properties. Amassed in its 210 pages are an unusually large number of Glycerine derivatives with extensive cross-references. Also included are a complete table of contents and a detailed index of the derivatives and fatty acid esters of Glycerine. A timely, comprehensive volume for your chemical reference library. Order from the Glycerine Producers' Association enclosing $2.50 (check or money order) for each copy.

★ ★ ★

TO STABILIZE PENICILLIN AEROSOLS, the addition of a small quantity of glycerine to a penicillin solution is recommended by a group of investigators. (D-13)

★ ★ ★

AN ABRASIVE-FREE FABRIC-BASE RAZOR STROP can now be made with a new chemical composition, according to a recent patent. The composition is said to contain beeswax, creosote, cresylic acid, an aryl-phenol, and glycerine among other ingredients. (D-14)

★ ★ ★

A NEW MATERIAL FOR MEDICINAL CAPSULES is described as containing hydrolized gluten, mineral oil, gelatin, glycerine and water. (D-15)

★ ★ ★

STABLE EMULSIONS OF OIL AND GLYCERINE can now be obtained by the addition of a small amount of prolamine as an emulsifying and stabilizing agent, a recent patent states. (D-16)

GLYCERINE PRODUCERS' ASSOCIATION, DEPT. 6
295 MADISON AVENUE
NEW YORK 17, N. Y.

I should like to receive information on the source of the items appearing in Technical Glycerine News. I have checked below those items which interest me.

☐ D-13 ☐ D-14 ☐ D-15 ☐ D-16

NAME.....

COMPANY.....

ADDRESS.....

Hexanol—Lead Tallate

Hexanol, normal, dms., c.l., works, lb. .30½- —
l.c.l., works lb. .31 - —
tanks, works lb. .29 - —
Hexyleneglycol (see Methylpentanediol).
Hexylresorcinol, USP, 100 lbs. up, frt. alld lb.19.00 - —
works lb.19.00 -27.75
smaller lots, frt. alld lb.20.00 -21.50
works lb.20.00 -33.50
Histidine hydrochloride—laevo, NF, fib. dms., works, 50 kilos, kilo.120.00 - —
1-5 kilos kilo.130.00 - —
Homatropine hydrobromide, USP, bots oz.15.00 -25.00
Hydrochloride, bots oz.20.00 -22.00
Methylbromide, NF oz.16.00 -18.50
Hoofmeal, 17-18% ammonia bulk, c.l., Chicago unit-ton. 7.00 - —
Hops, NF, bls. lb. .40 - .45
Horehound, bls. lb. .12 - .15
Hydrangea root, bls lb. .14 - .17
Hydrastine, bots oz.53.50 -53.80
Hydrochloride, NF oz.29.50 -36.00
Sulphate, bots oz.53.50 -53.80
Hydrastinine, 10-grain bots bot. 1.95 - —
Hydrastis (see Goldenseal).
Hydrofuramide, dms., fib. cns., works lb. .30 - .40
Hydrogen peroxide, USP, bbls lb. .03¾- .05
27½%, cbys., E. of Miss. or W. coast via Panama Canal lb. .17½- .19½
35%, cbys., same basis lb. .23½- —
dms., c.l., same basis lb. .20½- —
l.c.l., same basis lb. .21½- —
tanks lb. .19¾- —
Hydroquinone, photographic, bbls., dms lb. .90 - —
tech., dms. lb. .70 - —
Hydroxycitronellal, cns lb. 5.35 - 6.50
Hyoscine hydrobromide, bots oz.34.00 -38.00
Hyoscyamine, bots oz.18.00 -20.00
Hydrobromide, bots oz.18.00 -19.50
Sulphate, bots oz.14.00 -19.50
Hypernic extract, cryst., No. 1, bbls., l.c.l. lb. .56 - —
No. 2, bbls., l.c.l. lb. .48 - —
liquid, No. 1, bbls., l.c.l. lb. .30 - —
No. 2, bbls., l.c.l. lb. .25 - —
solid, No. 1, bxs., l.c.l. lb. .44 - —
Hyssop herb, bgs lb. .45 - .50
Leaves, bgs lb. .55 - .60

I

Iceland moss, bgs lb. .40 - .50
Ichthammol, NF, bots lb. 2.45 - —
Indian red (see Red, Indian).
Indigo, nat., chests lb. 2.14 - 2.16
synth., paste, bots lb. .23 - —
powd., bbls lb. 1.03 - —
Indol, CP, bots lb.17.00 -19.00
Inositol, tins, dlvd lb. 5.00 - —
Insect flowers (see Pyrethrum).
Iodine, crude, kgs., ex whse. Staten Island lb. 1.729 - —
resubl., USP, bots., jars lb. 2.55 - 2.65
Iodochlorohydroxyquinolin, NF, dms. lb. 6.40 - —
Iodoform, NF, dms., kgs lb. 4.30 - 4.74
Ionone, alpha, cns lb. 5.10 -12.30
beta, cns lb. 7.05 - 6.50
Methyl (see M).
IPC, bots., 1-5 lbs lb. 2.68 - 2.72
fib. dms., 100 lbs., ship't point lb. 2.30 - 2.50
50 lbs., ship't point lb. 2.40 - 2.52
10-25 lbs., ship't point lb. 2.50 - 2.54
Ipecac root, bgs lb. 4.25 - 4.50
powd., bgs. lb. 4.65 - 4.90
Irish moss, bleached, prime, bls lb. .18 - .19
Iron acetate, liquor, 28° bbls., c.l., works lb. .09 - —
l.c.l., works lb. .09¾- —
solut., USP IX, cbys lb. .16 - —
djns. lb. .17 - —
Cacodylate, NF, bots lb.13.50 -14.50
Chloride (ferric), anhydr., tech., dms., c.l., works, 100 lbs. 5.75 - —
l.c.l., works 100 lbs. 6.50 - 7.50
cryst., tech., c.l., bbls., works, 100 lbs. 5.00 - 6.00
l.c.l., bbls., works 100 lbs. 5.50 - 8.00
USP, dms., works lb. .06¾- .08¼
solut., 42 Be, 100% basis, tanks, works 100 lbs. 3.45 - —
Citrate, gran., dms lb. .77 - .79
Gluconate, NF, dms lb. .85 - .95
Glycerophosphate, N.F., powd lb 4.25 - 4.35
Hypophosphite, NF, dms lb. 2.80 - —
Iodide, bots lb. 3.66 - 3.73
Naphthenate, liq., 6% Fe, dms., frt. alld lb. .21¼- .21¾
Oxalate, gran., dms lb. .83 - .85
Phosphate, soluble, NF, gran., cs. lb. .64 - .65
Pyrophosphate, soluble, NF VII, gran., dms lb. .69 - .73
Reduced (see Iron by hydrogen).
Resinate, 7.4% Fe, dms., frt. alld. lb. .23 - —
Stearate, dms., c.l. lb. .34 - —
ton lots lb. .35 - —
less ton lots lb. .36 - —
Sulphate (ferric), anhyd., bgs., c.l., works ton.28.50 - —
l.c.l., works ton.29.50 - —
(ferrous), tech. (see Copperas).
USP, cryst., bbls., dms lb. .09½- .10
Iron by hydrogen, kgs lb. .80 - .85
Iron-ammonium citrate, green, NF, gran., dms lb. .55 - .58
brown, USP, gran., dms lb. .55 - .58
Oxalate, dms lb. .25½- .28⅛
Iron-potassium oxalate fine gran., dms. lb. .30½- .33⅛
Iron-sodium oxalate, fine gran., dms lb. .25½- .28⅛
Isobornyl acetate, cns lb. .97 - 1.10
Isobutyl acetate, cns lb. .82 - 1.25
Methacrylate, M-5, dms., works lb. .60 - —
cns., works lb. .63 - .67
P-5, cns, works lb. .60 - —
Propionate, cns lb. No prices.
Thiocyanocetate, dms., c.l., works, gal. 3.85 —
l.c.l., works gal. 3.85 4.05
tanks, works gal. 4.23 —
Isobutyraldehyde, dms., works lb. .50 .53
Isoeugenol, cns. lb. 3.10 3.40
Isoleucine, dextro-laevo, with allo-isoleucine, dms., works lb.28.00 -35.00
Isopentane, dms., works lb. .45 - .55
Isophorone, dms., c.l., works lb. .23½- —
l.c.l., works lb. .24 - —
tanks, works lb. .22 - —
Isopropanol (see Acohol, Isopropyl).
Isopropyl acetate, dms., c.l., frt. alld. E. of Rockies lb. .11½- —
l.c.l., same basis lb. .12 - —
tanks, same basis lb. .10 - —
Alcohol (see Alcohol, Isopropyl).
Benzene (see Cumene).
Ether (see Ether, Isopropyl).
Phenylcarbamate (see IPC).
Isopropylamine, dms., works, c.s. lb. .24 - —
l.c.l., works lb. .25 - —
Isoquinoline, dms., c.l., works lb. .20 - —
l.c.l., works lb. .40 - —

J

Jaborandi leaves, bls lb. .15 - .20
Jalap root, NF, bls lb. .40 - .45
powd., bbls., bxs lb. .45 - .55
Resin, powd., bxs lb. 7.15 - 7.25
Juniper berries, bgs lb. .09 - .18
Tar, USP, dms lb. .80 - .85

K

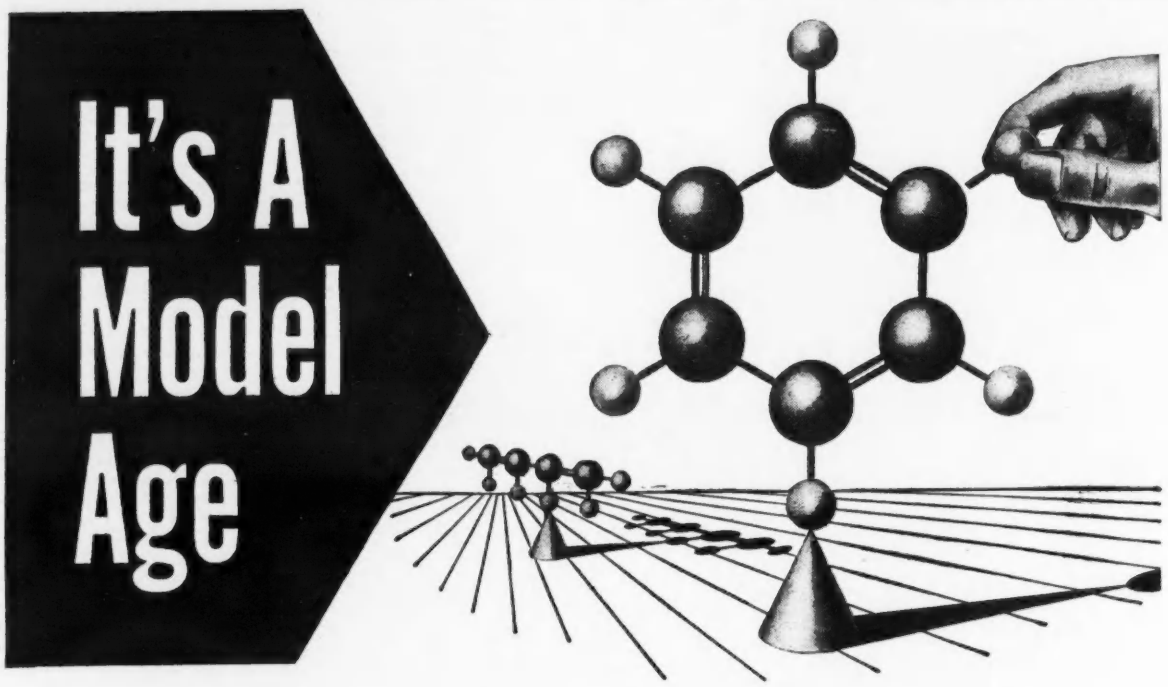
Kamala, powd., cns lb. .45 - .48
Kaolin (see China clay).
Kava kava root, bls lb. .25 - .30
Kerosene, at refinery: Ark., 42-44 specific gravity, w.w., tanks gal. .08375- —
Bayonne, 41-43 s.g., w.w., tanks, gal. .084 - —
California, 40-43, s.g., w.w., tanks, gal. .121 - .156
Gulf ports, 41-43, s.g., w.w., tanks, gal. .09 - .0925
Okla.-Tex., 41-43, s.g., w.w., tanks, gal. .07875- .08875
Penn., 45 s.g., w.w., tanks gal. .095 - .1025
Kola nuts, bgs lb. .08 - .10
Kyanite, imp., low iron content, 10-mesh, whse ton.85.00 -95.00
calcined, grain, 10-mesh, whse ton.95.00 -105.00

L

Lady slipper root, bls lb. 1.50 - 1.75
Lanolin, anhyd., cosmetic, dms., works lb. .30 - .32
pharmaceutical, USP, dms., works lb. .29 - .30
hydrous lb. .28 - .28½
Lard, cash, trcs., Chicago lb. .10⅞- .11
Larkspur seed bgs lb. .35 - .40
Laurel berries, bls lb. .25 - .26
Leaves, Portuguese, bls lb. .10 - .11
Greek, bls. lb. .08 - .08½
Turkish, bls., recleaned lb. .20 - .20½
Lavender flowers, medium, bls. lb. .55 - .60
ordinary, bls lb. .20 - .21
select, bls lb. .60 - .65
Lead acetate, white, crystals, bots., lb. .22¾- —
gran., bbls lb. .23½- —
powd., bbls lb. .23½- —
USP, cryst., dms lb. .26 - .30
gran., powd., dms lb. .26¾- .30¾
Arsenate, dealers, basic powder, 3-lb. bgs., or larger, c.l., frt. alld lb. .27 - .30
l.c.l., frt. alld lb. .31 - —
1-lb. bgs., c.l., frt. alld lb. .38 - .41½
l.c.l., frt. alld lb. .39 - .42½

Lead arsenate prices are works or whse. basis frt. alld. on 96 lbs. or more to dest. East.

Blue basic sulphate, bbls., c.l., ship't point, frt. alld lb. .13¼- —
l.c.l., works lb. .14¼- —
Carbonate (see Lead, white).
Chloride, fib. dms. lb. .49 - —
Iodide, NF V, jars lb. 2.94 - 3.12
Linoleate, liq., 13% Pb, dms., frt. alld lb. .32¾- —
Metal, pigs, prime, N. Y. lb. .13 - —
E. St. Louis lb. .1285- —
Metallic paste, dms., 20,000-40,000 lbs., works lb. .29 - —
10,000-20,000 lbs., works lb. .29½- —
2,000-10,000 lbs., same basis lb. .30 - —
100 to 2,000 lbs., same basis lb. .30½- —
Naphthenate, liquid, 16% Pb, dms., dlvd lb. .15¼- —
24% Pb, dms., dlvd lb. .21 - —
30% Pb, dms., dlvd lb. .25½- —
Nitrate, bbls., c.l. lb. .19 - —
l.c.l. lb. .19¼- —
Oleate, bbls. lb. .29½- —
Orthosilicate gel, 50% PbO, dms., works lb. .28¾- —
60% PbO, dms., works lb. .27¼- —
Peroxide, powd., tech., bbls lb. .33 - .34
Phthalate, dibasic, dms., works lb. .36½- —
Red, 95%, Pb_3O_4, or less, bbls., c.l., ship't point, frt. alld. lb. .15¾- —
l.c.l., same basis lb. .16¾- —
97% Pb_3O_4, bbls., c.l., same basis lb. .16 - —
l.c.l., same basis lb. .17 - —
98%, Pb_3O_4, bbls., c.l., same basis lb. .16¼- —
l.c.l., same basis lb. .17¼- —
Resinate, precip., dms., dlvd lb. .25 - —
lb. .41¼- —
Salicylate, normal, dms., works lb. .41¼- —
Silicate, bgs., l.c.l., ship't pt., frt. alld lb. .1420- .1475
Stearate, dibasic, dms., works lb. .49¾- —
precip., bbls., c.l. lb. .36 - —
ton lots lb. .37 - —
less ton lots lb. .38 - —
Sulphate (see Lead, blue; Lead, white, basic sulphate).
tribasic, dms., works lb. .23¼- —
Tallate, liquid, 16% Pb, dms lb. .14¼- .14¾
solid, 30% Pb, dms lb. .22¼- .22¾



. . . based upon the molecular structures that atoms build. Structures that bring us a multitude of vital products—many of which, like rubber and the whole range of plastics, benefit by important functions performed by modern materials such as Metasap Stearates.

UNCURED RUBBER STOCK, for example, will not stick when dusted with Metasap Zinc Stearate, and this zinc compound can be used to advantage to lubricate molds.

IN THE CASE OF PLASTICS, Metasap Zinc and Calcium Stearates not only improve *internal* lubrication of molding powders, but act as plasticizers. When dusted on molds, they supply *external* lubrication and prevent sticking. Metasap Stearates also permit molding at lower pressures, help speed the molding cycle, promote longer mold life—improve the finish of the plastic product.

IN PAINT, VARNISH and LACQUER MANUFACTURE, Metasap Stearates provide efficient thickening, suspension, and flatting. They serve to reduce grinding time and, in the case of lacquers, impart a tougher, more marproof and waterproof film.

FLUID, SEMI-FLUID, STIFF, STRINGY, ADHESIVE GREASES —long and short feathered—that do not freeze in winter, separate, dissolve or evaporate in summer, are obtained through use of Metasap Aluminum Stearate. Possessing high temperature-resistance, stability, and water-repellent qualities, these moisture-free lubricants keep moving parts operating efficiently and economically under the toughest conditions.

AND THERE ARE SCORES OF OTHER VALUABLE SERVICES performed by Metasap Stearates—from making ceramics lustrous and giving face powders "stay on" ability, to preserving fish nets and waterproofing concrete. *All* help to step up output, improve products, promote economies.

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1. Lanolin Alcohols
2. Lanolin Acids
3. Cholesterol
4. Lanosterol
5. Lanolin Aliphatic Alcohols

The chart below shows the industries in which these products should have the most valuable uses.

	Lanolin Alcohols	Lanolin Acids	Lanosterol	Lanolin Aliphatic Alcohols	Choles-terol
CHEMICALS	x	x	x	x	x
COSMETICS	x	x	x	x	x
INK	x	x	x		
LEATHER	x	x		x	
PAINT	x	x	x	x	
PAPER	x	x	x	x	
PETROLEUM	x	x	x	x	
PHARMACEUTICALS	x		x		x
RUBBER		x	x	x	
TEXTILES	x	x		x	

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☐ Lanolin Acids
☐ Lanosterol
☐ Lanolin Aliphatic Alcohols
☐ Cholesterol
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NAME.....

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CITY.....ZONE.....STATE.....

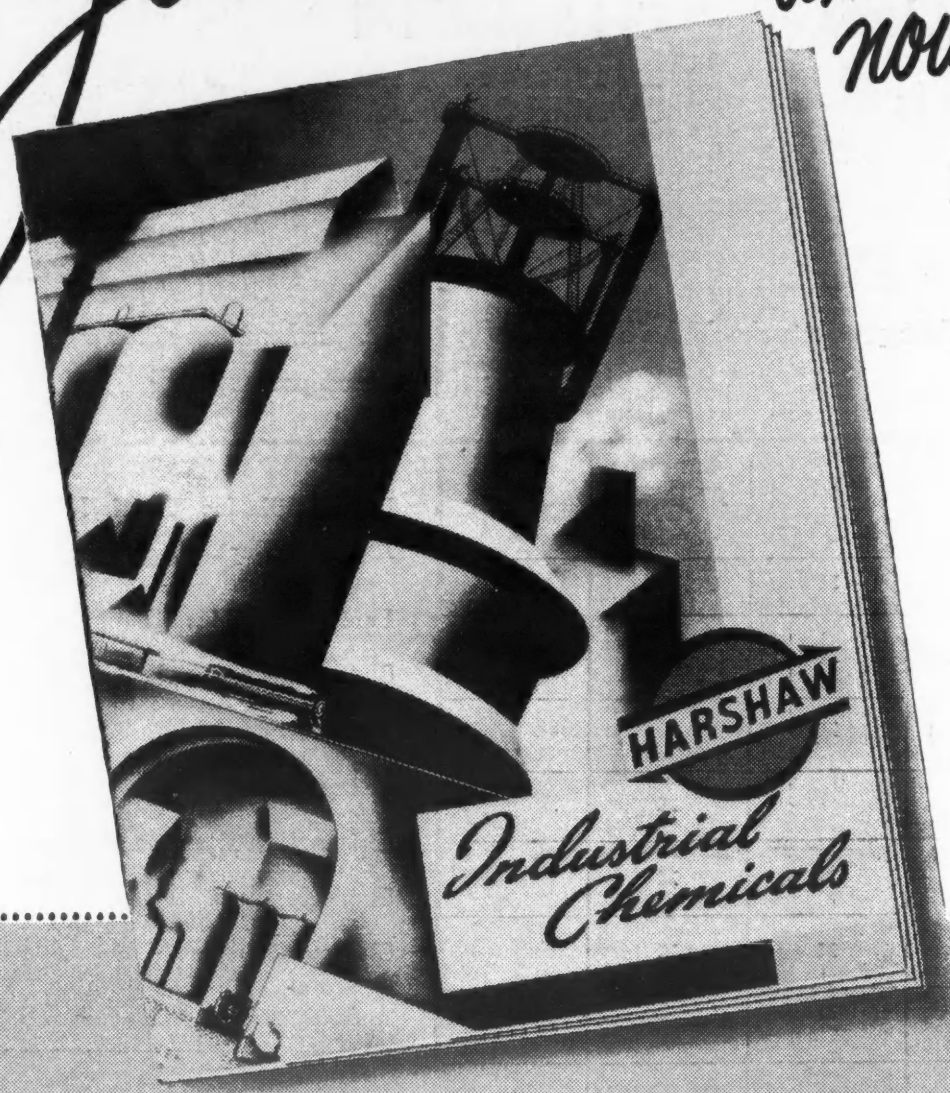
Lead, White—Mercaptobenzo Thiazole

Lead, white, basic carbonate, bgs., c.l., ship't point, frt. alld..lb. .14¾- .15½
l.c.l., same basis.....lb. .15¾- .16½
basic silicate, bgs., c.l., ship't point, frt. alld..lb. .15 - .17¼
l.c.l., same basis.....lb. .15½- .18¼
basic sulphate, bgs., c.l., ship't point, frt. alld..lb. .13¼- —
l.c.l., same basis.....lb. .14¼- —
Lecithin, edible, tech., bleached, dms., non-ret., c.l., works..lb. .16 - —
l.c.l., same basis.....lb. .18½- —
unbleached, c.l., same basis..lb. .15 - —
l.c.l., same basis.....lb. .17½- —
Lemon peel, bls.....lb. .22 - .25
Leucine, dextro-laevo, dms., works.lb.28.00 -35.00
Licorice extract, mass, cns.....lb. .45 - —
powd., bbls.....lb. .55 - —
Root, bls.....lb. .08 - .09
5-lb. bundles, cs.....lb. .40 - .45
powd., bbls.....lb. .11 - .12
Lignin extract, tanning grade, bgs., c.l., works..lb. .04¾- —
Lime, agricultural, bgs., works..ton.13.00 -13.50
Chemical (quicklime), lump, pebble, bulk, Adams, Mass..ton. 9.00 • —
Annville, Pa.....ton.10.00 • —
Bellefonte, Pa.....ton.10.00 • —
Buffalo, N. Y.....ton.10.00 • —
Carey, Ohio.....ton. 7.00 • —
Cedar Hallow, Pa.....ton. 9.50 • —
Farnams, Mass.....ton. 9.00 • —
Gibsonburg, Ohio.....ton. 8.50 • —
Hannibal, Mo.....ton. 6.50 • —
Keystone, Ala.....ton. 9.75 • —
Knoxville, Tenn.....ton. 9.75 • —
Limedale, Ark.....ton. 9.00 • —
Lime, chemical, bulk, Longview, Ala.....ton. 9.75 • —
Martinsburg, W. Va..ton.10.00 • —
Menominee, Mich.....ton. 8.00 • —
Mitchell, Ind.....ton. 7.50 • —
Rockland, Maine.....ton. 9.00 • —
Scioto, Ohio.....ton. 6.50 • —
Sherwood, Tenn.....ton.10.00 • —
Sherwood, Wis.....ton. 8.50 • —
Woodville, Ohio.....ton. 9.50 • —
York, Pa.....ton.10.00 • —
Hydrated, paper bgs., Adams, Mass..ton.11.50 • —
Annville, Pa.....ton.13.50 • —
Bellefonte, Pa.....ton.13.50 • —
Buffalo, N. Y.....ton.13.50 • —
Carey, Ohio.....ton. 9.00 • —
Cedar Hollow, Pa.....ton.11.50 • —
Engle, W. Va.....ton.13.00 • —
Farnams, Mass.....ton.11.50 • —
Gibsonburg, Ohio.....ton. 9.50 • —
Hannibal, Mo.....ton. 9.50 • —
Keystone, Ala.....ton.13.00 • —
Knoxville, Tenn.....ton.12.25 • —
Limedale, Ark.....ton.10.50 • —
Longview, Ala.....ton.13.00 • —
Manistique, Mich..ton. 9.50 • —
Marblehead, Ohio.....ton.10.50 • —
Mitchell, Ind.....ton.10.00 • —
Petoskey, Mich.....ton.10.00 • —
Port Island, Mich.....ton. 9.00 • —
Rapid City, S. Dak.....ton.12.00 • —
Rockland, Maine.....ton. 9.00 • —
Scioto, Ohio.....ton. 8.00 • —
Sherwood, Tenn.....ton.13.00 • —
Sherwood, Wis.....ton.10.00 • —
Springfield, Mo.....ton. 9.00 • —
Woodyville, Ohio.....ton. 8.50 • —
York, Pa.....ton.13.50 • —
Lime, spray, paper bags, Adams, Mass..ton.11.70 • —
Annville, Pa.....ton.13.50 • —
Bellefonte, Pa.....ton.13.50 • —
Carey, Ohio.....ton.11.00 • —
Engle, W. Va.....ton.13.00 • —
Farnams, Mass.....ton. 9.50 • —
Gibsonburg, Ohio.....ton.10.00 • —
Marblehead, Ohio.....ton.10.00 • —
Rockland, Me.....ton.10.00 • —
Scioto, Ohio.....ton.10.00 • —
Woodville, Ohio.....ton.10.00 • —
York, Pa.....ton.13.50 • —
Lime salts (see Calcium).
Lime-ammonia-nitrogen, 20.5% N (see Ammonium nitrate-limestone).
Limestone, grd., bgs., works.....ton. 3.50 - 4.00
Linalool, ex bois de rose.....lb. 4.50 - 6.85
ex lignaloe wood.....lb. 6.50 - 7.00
Linalyl acetate, ex bois de rose, bots..lb. 4.20 - 7.20
ex petitgrain, bots.....lb. 4.25 - 6.00
Linden flowers with leaves, bls..lb. .25 - .27
without leaves, bls.....lb. .24 - .26
Linseed meal, 34% bulk, Midwest mills..ton.53.00 -53.50
Litharge, com'l, powd., bbls., c.l., ship't point, frt. alld..lb. .14¾- —
l.c.l., same basis.....lb. .15¾- —
Lithium benzoate, dms.....lb. 1.65 - —
Bromide, NF, bbls., works, frt. equald..lb. 1.90 - —
Carbonate, NF, bbls., kgs.....lb. 1.10 - 1.15
Chloride, dms.....lb. 1.00 - —
Citrate, NF, bbls., dms., kgs..lb. 1.25 - —
Fluoride, bbls.....lb. 1.95 - —
Hydroxide, dms.....lb. 1.10 - —
Salicylate, dms.....lb. 1.62 - 1.70
Lithopone, ordinary, bgs., c.l., ship't point..lb. .06¼- —
l.c.l., same basis.....lb. .06½- .06⅝
Titanated (high-strength), bgs., c.l. lb. .08¼- —
smaller lots.....lb. .08½- —
Lithopone prices, Pacific Coast, ¾c. per lb higher.
Liverwort leaves, bls.....lb. .85 - .90
Lobelia herb, bls.....lb. .55 - .60
leaves, NF.....lb. .85 - 1.00
Lobeline sulphate, bots., works..oz.25.50 -38.00
Logwood extract, crystals, No. 1, bbls., l.c.l.....lb. .38½- —
No. 2, bbls., l.c.l.....lb. .36½- —
liquid, No. 1, bbls., l.c.l.....lb. .18½- —
No. 2, bbls., l.c.l.....lb. .17½- —
No. 3, bbls., l.c.l.....lb. .17 - —
No. 4, bbls., l.c.l.....lb. .16½- —
solid, No. 1, bxs., l.c.l.....lb. .33 - —
No. 2, bxs., l.c.l.....lb. .31 - —
No. 3, bxs., l.c.l.....lb. .28½- —
No. 4, bxs., l.c.l.....lb. .28 - —
No. 5, bxs., l.c.l.....lb. .26½- —
No. 6, bxs., l.c.l.....lb. .44½- .49¼
Lovage root, imp., bls.....lb. 1.20 Nom.
Lupulin, tins.....lb. 1.95 - 2.00
Lycopodium, cs.....lb. 1.90 - 2.50
Lysine hydrochloride, dextro-laevo, kilo.145.00 -149.00

M

Mace, Amboyna, bls.....lb. .70 - .71
Banda, No. 1, bls.....lb. .92 Nom.
Siauw, No. 1, bls.....lb. .85 - .88
West Indian, bls.....lb. .80 - .81
broken, bls.....lb. .68 - .69
Madder, Dutch, bgs.....lb. .29 - .32
Magnesia, calcined, tech., ctns., works lb. .32 - —
synth., rubber grade, ctns., works..lb. .29 - —
USP, light ctns.....lb. .34 - —
heavy, bbls.....lb. .36 - —
Magnesium arsenate, bgs., cans, works..lb. .20 - .30
Bromide, jars.....lb. .90 - 1.00
Carbonate, tech., bgs., c.l., frt. equald..lb. .09 - —
l.c.l., frt. alld.....lb. .10 - —
bbls., c.l., frt. equald.....lb. .10¼- —
l.c.l., frt. alld.....lb. .11¼- —
kgs., c.l., frt. equald.....lb. .11½- —
l.c.l., frt. alld.....lb. .12½- —
USP, bgs., c.l., frt. equald..lb. .10¾- —
l.c.l., frt. alld.....lb .11¾- —
bbls., c.l., frt. equald.....lb. .11¼- —
l.c.l., frt. alld.....lb. .12¼- —
kgs., c.l., frt. equald.....lb. .12½- —
l.c.l., frt. alld.....lb .13½- —
Magnesium carbonate is quoted frt. alld. to N. J. except to Atlantic, Burlington, Cape May, Cumberland, Glostershire, Ocean and Salem counties, and to Phila. county, Pa. Frt. equald. with N. Y. C. on all other destinations.
Chloride, anhyd., bbls., works lb. .12¼- —
flake, bbls., c.l., works.....ton.40.00 - —
l.c.l., works.....ton.44.00 -46.00
Gluconate, dms., cns.....lb. 2.80 - 2.94
Glycerophosphate, dms., works lb. 4.85 - —
Hydroxide, NF, medicinal, bbls., dms., kgs..lb. .29 - .30
Hypophosphite, dms.....lb. 1.60 - —
Laurate, bbls.....lb. .46 - .47
Metal, 99.8% ingots, cs., works.lb. .20½- —
sticks, cs., works.....lb. .34 - .38
Oleate, precip., bbls.....lb. .40½- —
Oxide (see Magnesia, calcined).
Peroxide, 15%, dms., works....lb 1.00 - 1.05
Phosphate, tribasic, NF, bbls...lb. .75 - —
Silicate (see Talc).
Silicofluoride, bbls., works.....lb. .09 - .09¼
Stearate, ctns., c.l.....lb. .35 - —
smaller lots.....lb. .36 - .37
Sulphate (see Epsom salt).
Trisilicate, USP, dms., 1,000-lb. lots..lb. .43 - —
100-lb. lots.....lb. .50 - —
Magnesite, chemical grade, bgs., c.l., mines, Calif..ton.67.50 - —
dead-burnt, bulk, c.l., Chewalah, Wash..ton.30.50 - —
Maleic anhydride, dms., c.l., frt. alld..lb. .30 - —
l.c.l.....lb. .31 - —
Prices on maleic anhydride West of Rockies 1½c. higher.
Malva flowers, black, bls.....lb. 1.45 - 1.75
Blue, bls.....lb. .95 - 1.10
Leaves, bls.....lb. .40 - .42
Manaca root, bls.....lb. .49 - .50
Mandrake root, bls.....lb. .38 - .42
Manganese acetate, bbls.....lb. .32 - —
Arsenate, bgs.....lb. .12 - .12¼
Borate, tech., bbls.....lb. .23 - —
Carbonate, bbls.....lb. .19 - —
Chloride, anhyd., dms., works lb. .24 - —
Dioxide, African, battery, 84-87%, bbls., 28-40 tons, works, ton.74.00 - —
smaller lots, works..ton.77.00 -82.00
burlap bgs., c.l., works..ton.71.75 - —
l.c.l., works.....ton.74.75 -79.79
paper bgs., c.l., works..ton.70.00 - —
l.c.l., works.....ton.73.00 - —
85-90%, bbls., c.l., works..ton.74.00 - —
smaller lots, works...ton.77.00 -82.00
Gluconate, dms., cns.....lb. 3.00 - 3.25
Glycerophosphate, NF, fib. dms lb. 4.15 - 4.25
Hydrate, bbls., dlvd.....lb. .26 - —
Hypophosphite, NF, dms.....lb. 2.00 - —
Linoleate, liquid, 4.35% Mn, dms. lb. .39¼- —
solid, precip., 8.2% Mn, bbls., lb. .41¼- —
Metal, cs. dlvd. East.....lb. .30 - .32
Naphthenate, liquid, 6% Mn, dms., frt. alld..lb. .22¾ - .23¼
Oleate, fused, bbls.....lb. .44¼- —
Resinate, fused, 3½% Mn, dms.. lb. .20 - —
precip., dms.....lb. .21½- —
Stearate, ctns., c.l.....lb. .35 - —
smaller lots.....lb. .36 - .37
Sulphate, fertilizer grade 65%, bgs., c.l., dlvd. S. E...ton.60.00 - —
l.c.l., dlvd. S. E.....ton.67.00 - —
feed grade, 80%, bgs., dlvd. S. E...lb. .05¼- .07
75%, bgs, c.l., dlvd. S. E..ton.68.50 - —
l.c.l., dlvd. S. E.....ton.75.50 - —
Tallate, liquid, 4% Mn, dms....lb. No prices.
solid, 8% Mn, dms.....lb. No prices.
Mangrove bark, E. Africa, 38% tannin, c.l., ex dock..ton.72.00 Nom.
Manna, flake, large, cs.....lb. 1.25 - 1.35
small, cs.....lb. .85 - 1.00
Mannitol, com'l, dms., works.....lb. .40 - .43
reagent, 50-lb. dms., works.....lb. .85 - —
Marjoram, Argentine, bls.....lb. .14 Nom.
Chilean, bls.....lb. .16 - .16½
French, bls.....lb. .34 - .34½
Matico leaves, bls.....lb. .25 - .28
Menadione, USP, bots., works gram. .06½ —
Menthol, natural, USP, Brazilian..lb.10.75 -11.00
synthetic, USP, racemic, cns....lb. 7.25 Nom.
Menthyl salicylate, tins.....lb. 4.25 - 4.35
Mercaptobenzo thiazole, 50-lb. bgs., 150-lb. containers, works, frt. alld., ton lots..lb. .27 - —
less ton lots, same basis..lb. .29 - —

Yours FOR THE ASKING... write now!



This 32-page book alphabetically lists all chemicals available through Harshaw, relates the history of the Company and describes Harshaw's major activities. Write for a copy.

THE HARSHAW CHEMICAL CO.
1945 East 97th Street, Cleveland 6, Ohio
BRANCHES IN PRINCIPAL CITIES

Mercury, ammoniated (see White precipitate).
Bichloride (see Corrosive sublimate).
Bisulphate, dms ..... lb. 2.13 2.15
Chloride (see Calomel).
Cyanide, NF, cryst., powd..... lb. 3.27 - 3.32
Iodide, red, NF, dms ..... lb. 4.32 - —
Yellow, NF, fib. dms..... lb. 4.42 - —
Metal (see Quicksilver).
Oxide, red, NF (see Red precipitate).
Yellow, tech. (see Yellow, mercury oxide).
NF, fib. dms ..... lb. 2.44 2.46
Mesityl oxide, dms., c.l., dlvd ... lb. .13 —
l.c.l., dlvd ..... lb. .13½- —
tanks, dlvd ..... lb. .11½- —
Metaldehyde, dms., works ..... lb. .73 - —
Metachloraniln, dms., works ..... lb. .75 - —
Metacresol, 98%, dms., c.l., works lb. .55 .80
l.c.l. ..... lb. .56 - —
80-82%, dms., works ..... lb. .35 - —
70-75%, dms., works ..... lb. .30 - —
Metaparaisopropylphenol dms., c.l. lb. .21 - —
l.c.l. ..... lb. .22 - —
tanks ..... lb. .20 - —
Metanitroparatoluidin, bbls..... lb. 1.28 1.33
Metaphenylenediamine, kgs..... lb. .76 - —
Metatoluidine, bbls., works..... lb. .80 - —
Metatolylenediamine, kgs ..... lb. .85 - —
Methanol, natural, dms., c.l., frt. alld. gal. .58 - —
l.c.l., frt. alld. ..... gal. .61 - —
tanks, frt. alld ..... gal. .50 - —

Prices on natural methanol W. of Miss. 3c. higher.

synthetic, eastern production, zone 1, dms., c.l., frt. alld. gal. .38 - —
l.c.l., frt. alld..... gal. .41 - —
tanks, frt. alld ..... gal. .26 - —
zone 2, dms., c.l., frt. alld.. gal. .45 - —
l.c.l., ex whse..... gal. .47½- —
tanks, frt. alld..... gal. .31 - —

Synthetic methanol zones are: Zones 1 is all continental U. S., E. of eastern boundaries of Ariz., Idaho, Mont., and Utah. Zone 2 is remainder of the U. S., west of above state boundaries, comprising Ariz., Calif., Idaho, Mont., Nev., Ore., Utah and Wash.

Texas production, Midwest and Gulf states, dms., c.l., works, frt. alld. gal. .38 - —
tanks, frt. alld ..... gal. .26 - —
West of Rockies, dms., c.l., frt. alld. gal. .45 - —
tanks, frt. alld..... gal. .31 - —
Methenamine (see Hexamethylenetetramine).
Methionine, dextro-laevo, fib. dms., works, 50-lb. or more. lb. 7.25 - —
1 to 49-lb. lots, works ..... lb. 8.75 - —
Methoxychlor, dealers, dms., cs., works lb. .65 - —
Methyl abietate, non-ret. dms., c.l., dlvd., zone 1 lb. .17 - —
l.c.l., same basis ..... lb. .17½- —
hydrogenated, non-ret. dms., c.l., dlvd., zone 1 lb. .17½- —
l.c.l., same basis ..... lb. .17¾- —

Zone 1 includes New England and Middle Atlantic states, Va., W. Va., N. C., Ohio., Ky., Mich., Ind., Ill., Wis., St. Paul and Minneapolis, Minn., St. Louis, Mo., Miss., Ala., Ga., Fla., S. C. and Tenn.

Acetate, dms., c.l., dlvd., N. Y. lb .08 —
l.c.l., same basis ..... lb. .08½- —
Acetoacetate, dms., c.l., works . lb. .49½- —
l.c.l., same basis..... lb .50 - —
tanks, works ..... lb. .48 - —

Methyl acetoacetate prices frt. alld. W., ½c. higher.

Acetone, natural, group A, dms., extra, c.l., E. of Miss., frt. alld. gal. .60 - —
l.c.l., same basis..... gal. .71 - —

Natural methyl acetone group A prices W. of Miss. 3c. per gal. higher.

Group B dms., incl., E. Miss., frt. alld., any quantity..gal. .50 - —
synthetic, dms., c.l., works, frt. alld. E..gal. .53 - —
frt. alld. W ..... gal. .57 - —
l.c.l., works, frt. alld. E..gal. .56½- —
frt. alld. W ..... gal. .60½- —
tanks, works, frt. alld. E..gal. .42½- —
frt. alld. W..... gal. .47 - —

Methyl acetone, synth., East. territory, is all States East of and including Colo., Mont., N. Mex. and Wyo. West territory, all States West of those four.

Alcohol (see Methanol).
Anthranilate, 500 lbs. or more..lb. 2.10 - —
smaller lots ..... lb. 2.20 - 3.00
Benzoate, cns. ..... lb. .55 - 1.20
Bromide, dealers, cns..... lb. .69 - .71
cyls. ..... lb. .60 - .78
Chloride, indust., cyl., works... lb. .17 - —
tanks, multi-unit, works.... lb. .13 - —
single-unit works ..... lb. .10½- —
refrigerator mfrs., cyls., dlvd... lb. .34 - —
other consumers or service men, cyls., dlvd..lb. .42 - —
Cinnamate, cns. ..... lb. 1.48 - 1.65
Heptin carbonate, bots..... lb. 36.00 -58.00
Iodide, bots., cbys ..... lb. 3.00 - 4.85
Lactate, dms., l.c.l., works..... lb. .35 - —
Methacrylate, M-1, dms., works lb. .45 - —
cns, works ..... lb. .48 - .58
P-1, cns., works..... lb. .60 - —
Parahydroxybenzoate, USP, bots. lb. 2.10 - 2.20
fib. dms. ..... lb. 1.90 - 2.00
Roseanilin chloride, USP, bots... lb. 5.15 - 5.30
Salicylate, USP, dms., 500 lbs..lb. .40 - —
25-50 lbs. ..... lb. .45 - —
Testerone, USP, 100 gms..... gm. 3.75 - —
Methylal, refined, 95%, dms., c.l.. lb. .06 - —
l.c.l., works..... lb. .07 - —
tanks, works..... lb. .04½- —
Methylamyl acetate, dms., c.l., dlvd. lb. .14½- —
l.c.l., dlvd..... lb. .15 - —
tanks, dlvd. ..... lb .13 - —
Ketone, dms., works..... lb. .70 - —
Methylcellulose, special vis., (4,000 cps.), fib. ctns., c.l., frt. alld. ..... lb. .68 - —
2,000 lbs. and more, same basis lb. .70 - —
smaller lots frt. alld. on 100 lbs.. lb. .75 - .80
standard vis. (15-1,500 cps.), fib. ctns., c.l., frt. alld. lb. .62 - —
2,000 lbs. and more, same basis lb. .63 - —
smaller lots, frt. alld. on 100 lbs.. lb. .68 - .73
Methylene blue, USP, 100-lb. lots, kgs., frt. equald lb. 2.87 - —
smaller lots, kgs., same basis. lb. 3.02 - 3.22
Chloride, indust., dms., c.l., dlvd, E. lb. .12½- —
l.c.l., dlvd E ..... lb. .13½- —
tanks, dlvd E ..... lb. .11½- —
Methylethyl ketone, dms., dlvd.... lb. .11½- —
l.c.l., dlvd..... lb. .12 - —
tanks, dlvd..... lb. .10 - —
Methylhexyl ketone, tech., dms., works lb. .60 —
Methylionone, A, cns ..... lb. 6.55 - 6.80
D, cns ..... lb. 7.50 - 9.55
prime, cns..... lb. 4.55 - 6.40
Methylisobutyl carbinol (see Carbinol, methylisobutyl).
Ketone, dms., c.l., dlvd ..... lb. .14 - —
l.c.l., dlvd. ..... lb .14½- —
tanks, dlvd..... lb. .12½- —
Methylnaphthyl ketone, cns..... lb. 3.00 3.75
Methylparaben (see Methylparahydroxybenzoate).
Methylpentanediol, dms., works, dlvd. lb. .16½- —
l.c.l., works, dlvd ..... lb. .17 - —
tanks, works, dlvd..... lb. .15 - —
Methylthionine chloride (see Methylene blue).
Mica, dry-grd., paint, plastic, 100 mesh, bgs., c.l., works lb. .03⅞- —
roofing, 20 to 80 mesh, works lb. .03⅜- —
wet-grd., biotite, bgs., c.l., works, frt. alld. E lb. .05½- —
l.c.l., ex whse. or frt. alld E. lb. .06¼- —
extra fine, bgs., c.l., works, frt. alld. E lb. .05½- —
l.c.l., ex whse. or frt. alld. E lb. .06¼- —
paint or lacq., bgs. c.l., works, frt. alld. E lb. .07 - —
l.c.l., ex whse. or frt. alld. E lb. .07¾- —
rubber, bgs., c.l., works, frt. alld. E lb. .06¾- —
l.c.l., ex whse. or frt. alld. E lb. .07¼- —
wallpaper, bgs., c.l., works, frt. alld. E lb. .07 - —
l.c.l., ex whse. or frt. alld. E lb. .07¾- —
Mica, wet-grd., white, extra fine, bgs., c.l., works, frt. alld. E lb. .07 - —
l.c.l., ex whse. or frt. alld. E lb. .07¾- —

Mica, wet-grd., W of Miss. R., W of Rockies, 1c. higher. ½c. higher.

Milk powder, skimmed roller, bbls., c.l lb. .10½- .12¾
spray, bbls. c.l. ..... lb. .12½- .13¾
Whole, roller, bbls., c.l ..... lb. .26 - .33
spray, bbls., c.l ..... lb. .28½- .35¼
Sugar, crude, bgs., c.l., works lb. .17 —
edible, bbls., works, 30,000-lb. lots lb. .24 - —
2,000-lb. lots ..... lb. .24¾- —
200-1,800-lb. lots ..... lb .25¼- —
USP, bbls., works, 30,000-lb. lots lb. .26 - —
2,000-lb lots ..... lb .26¾- —
200-1,800-lb lots ..... lb 27¼ - —
Molasses, blackstrap, tanks .... gal. .08 - .08½
New Orleans ..... gal. .06½- —
Molybdate orange (see Orange molybdate).
Mineral spirits (see Petroleum, mineral spirits).
Molybdenum metal, 90% Mo., powd., kgs lb. 2.60 3.00
pure, kgs., works, basis Mo. content lb. .95 - —
technical, kgs., works, basis Mo. content lb. .80 - —
Monochlorobenzene, dms., c.l., works, frt. alld lb. .07 .08
l.c.l., works, frt. equald ..... lb. .08 - .10
tanks, works, frt. equald ..... lb. .06 .06½
Monoethanolamine, dms., c.l., frt. alld. E lb. .27 - —
l.c.l., same basis ..... lb. .28 - —
tanks, same basis ..... lb. .25½- —
Monoethylamine, dms., c.l., works, basis 100% lb. .22 - —
l.c.l., same basis ..... lb. .23 - —
tanks, same basis ..... lb. .20 - —
Monomethylamine, 25%-40%, dms., c.l., works, basis 100% lb. .33 - —
l.c.l., same basis ..... lb. .36 - —
tanks, same basis ..... lb. .31 - —
Monomethylanilin, dms. works lb. .70 - —
Monononylnaphthalene, c.l., dms., works lb. .14 - —
l.c.l., dms., works ..... lb. .15 - —
tanks, works ..... lb. .13 - —
Monosodium fluoroacetate (see Sodium fluoroacetate monobasic).
Monosodium glutamate (see Sodium glutamate, monobasic).
Phosphate (see Sodium phosphate, monobasic).
Monotertiarybutylmetacresol, dms., c.l., works lb. .50 - —
l.c.l., works..... lb. .51 - —
tanks, works ..... lb. .49 - —
Morphine, cns. ..... oz. 12.35 -12.40
Acetate, cns. ..... oz. 9.85 - 9.90
Hydrobromide, cns. ..... oz. 9.80 - —
Hydrochloride, NF, cns ..... oz. 9.90 - —
Sulphate, USP, cns ..... oz. 9.90 - —
Morpholine, dms., c.l., works..... lb. .59½- —
l.c.l., works ..... lb. .60 - —
smaller containers, works..... lb. .75 - —
tanks, works..... lb. .58 - —
Mountain ash berries, bgs..... lb. .55 - .57
Mullein flowers, cs..... lb. 1.23 - 1.30
Leaves, bls. ..... lb. .12 - .16

a high-boiling solvent for cellulose ester lacquers

Diacetone Alcohol gives exceptional performance as a high-boiling solvent for cellulose acetate and cellulose acetate butyrate . . . is excellent for nitrocellulose. The presence of Diacetone Alcohol in *your* lacquer formulations will result in an improved product with these advantages:

Better film flow. Diacetone Alcohol is widely employed to control the evaporation rate of lacquers. In this usage a small quantity in combination with active lacquer solvents imparts improved flow properties to the final product.

Greater blush resistance. Diacetone Alcohol not only improves film flow but it also eliminates blushing during the application and drying of the lacquer film. A superior film appearance is thus obtained.

Mild Odor. Diacetone Alcohol is particularly suitable for use in interior brushing lacquers, because of its faint but pleasant odor. This property, together with its slow evaporation rate, makes Diacetone Alcohol excellent for dipping and roller-coating applications.

Properties

Molecular Weight	116.16
Specific Gravity 20/4°C	0.9382
Boiling Point (760 mm)	166°C (approx.)
Freezing Point	—44°C
Refractive Index	1.4232
Vapor Pressure 20°C	0.84 mm Hg

Lacquer Solvent Properties

Dilution Ratio	
Toluene	3.0
Aromatic Naphtha	1.0
Aliphatic Naphtha	0.5
Viscosity 25°C (8% soln. ½ sec. nitrocellulose)	153 cps.
Blush Resistance (% relative humidity at 80°F)	87
Rate of Evaporation (n-butyl acetate = 1.0)	0.2

Other Applications. An effective solvent for penta-chlorophenol, the widely used weed fungicide . . . excellent in hydraulic fluids . . . an important ingredient of industrial dyes and stains.

SHELL CHEMICAL CORPORATION

Eastern Div.: 500 Fifth Ave., New York 18 • Western Div.: 100 Bush St., San Francisco 6

Los Angeles • Houston • Chicago • St. Louis • Cleveland • Boston • Detroit • Newark

Musk—Oil, Hemlock

Musk, nat., Tonquin, grains, bots.	oz.	25.00	-30.00
synthetic—Ambrette, 100 lbs.	lb.	5.40	• —
25 lbs.	lb.	5.50	• —
5 lbs.	lb.	5.65	• —
Ketone, 100 lbs.	lb.	4.95	• —
25 lbs.	lb.	5.05	• —
5 lbs.	lb.	5.20	• —
Xylol, 100 lbs.	lb.	1.60	• —
25 lbs.	lb.	1.70	• —
5 lbs.	lb.	1.85	• —
Musk root, bls.	lb.	No prices.	
Mustard seed, Calif., brown	lb.	.22	Nom.
Danish, bgs.	lb.	.15	• .15½
Dutch, yellow, bgs	lb.	.15	• .15½
English, yellow, bgs	lb.	.12¾	-.13
Montana, brown, bgs., source	lb.	.05¾	-.06
Oriental, bgs., source	lb.	.05¼	-.05½
yellow, bgs., source	lb.	.10	• .10½
Washington, yellow, source, bgs	lb.	.10½	-.11
Myrobalans, J1, assorted ex dock	ton.	61.00	-62.00
J2, ex dock	ton.	53.00	-54.00

N

Naphtha, painters (see Petroleum naphtha, V. M. & P.).
Solvent (see S).

Naphthalene, dom., crude, 74°, bgs., bbls., frt. equald	lb.	.06	• —
tanks, same basis	lb.	.0525	- —
78°, bgs., c.l., works, frt. equald	lb.	.0635	- —
l.c.l., same basis	lb.	.0660	- —
bbls., c.l., same basis	lb.	.0635	- —
l.c.l., same basis	lb.	.0660	- —
Naphthalene, dom., crude, 78°, dms., c.l., same basis	lb.	.0750	- —
l.c.l., same basis	lb.	.08	- —
tanks, same basis	lb.	.0575	- —
refined, industrial, bbls., c.l., frt. equald	lb.	.10	• .12
bgs., c.l., same basis	lb.	.09½	-.11½
tanks, same basis	lb.	.09	• .11
balls, flakes, wholesalers, jobbers, 50-lb. cs., c.l., same basis	lb.	.14	• —
bbls., c.l., same basis	lb.	.13¾	- —
1-lb. pkgs., c.l., same basis	lb.	.15¼	- —
Neocinchophen, USP, dms., works	lb.	7.00	- 7.10
Nepheline syenite, glass, 24 mesh, bulk, Rochester, N. Y	ton.	14.25	• —
pottery, 200 mesh, bulk, Rochester, N. Y.	ton.	18.25	• —
Nepheline syenite in bgs., $3 per ton higher than bulk.			
Nerolin, cns.	lb.	2.00	- 2.25
Niacin (see Acid, nicotinic).			
Niacinamide (see Nicotinamide).			
Nickel acetate, bbls., dlvd.	lb.	.50	• —
Carbonate, bbls., dlvd.	lb.	.48	• .50
Chloride, bbls., dlvd.	lb.	.23	• —
Cyanide, bots., dms.	lb.	1.75	- 2.00
Formate, bbls., ton lots, dlvd.	lb.	.43½	- —
Metal, electro cathodes, cs.	lb.	.40	• —
Nitrate, bbls., works	lb.	.24½	- .25¼
Oxide, black, bbls.	lb.	.42	• —
Sulphate, bgs., c.l., dlvd.	lb.	.18	• —
l.c.l., dlvd.	lb.	.18½	- —
Nicotinamide, USP, dms., works	kilo.	11.00	-11.30
Hydrochloride, dms., works	kilo.	10.50	-10.80
Nicotine sulphate, 40%, 56 lb. dms., dealers, frt. alld. over 50 lbs.	dm.	36.60	• —
tins, 10 lbs., dealers, frt. alld. on cases of 6	tin.	11.80	• —
Nikethamide, bots., cbys.	lb.	5.50	- 6.60
Nitercake, bulk, works	ton.	No stocks.	
Nitrobenzene, tbl. dist., dms., c.l.	lb.	.09	• .09½
l.c.l.	lb.	.10	• .11
tanks	lb.	.08	• .08½
Nitrocellulose, ester soluble, 30-35 cps., ¼, ½, 5-6, 15-20, 30-40, 60-80 and 125-175 secs., bbls., c.l., works, dry weight	lb.	.28	• —
l.c.l., same basis	lb.	.29	• .31
18-25 cps., bbls., c.l., same basis	lb.	.30	• —
l.c.l., same basis	lb.	.31	• .33
250-400 secs. and 600-1,000 secs., bbls., c.l., same basis	lb.	.32	• —
l.c.l., same basis	lb.	.33	• .35
spirit-soluble, 30-35 cps., ¼, ½, 5-6 and 40-50 secs., bbls., c.l., same basis	lb.	.33	• —
l.c.l., same basis	lb.	.34	• .36

Denatured alcohol used in the manufacture of nitrocellulose is charged extra. Drums extra, but returnable.

Nitroethane, dms., works	lb.	.30	• —
Nitrogen solution, tanks, works, N.	ton.	120.00	-127.16
Nitrogenous process tankage, bulk, works, ammo	unit-ton.	3.50	- 4.00
Sewage sludge, bulk, works, unit	ton.	3.25	+ .40
Nitromethane, dms., l.c.l., works	lb.	.30	• —
Nitropropane, 1, dms., works	lb.	.30	• —
2, dms., works	lb.	.30	• —
Nutgalls, Aleppo, bgs.	lb.	.43	• —
Chinese, bgs.	lb.	.38	• —
Istrian, bgs.	lb.	.31	• —
Nutmeg, East Indian, bgs.	lb.	.40	• .41
futures, bgs.	lb.	.42	• .42½
West Indian, bgs.	lb.	.33	• .34
futures	lb.	.32	• .33
Nux vomica, bls.	lb.	.10	• .12
powdered, bbls., bxs.	lb.	.13	• .14

O

Oakbark extract, 25% tannin, bbls., c.l., works	lb.	No stocks	
Octane, 100°-140° C, industrial grade, group 3, dms., c.l.	gal.	.19	• —
l.c.l.	gal.	.21	• .60
tanks	gal.	.15½	- —
10° C, Bayonne, N. J., tanks	gal.	.16	• —
Octanol (see Alcohol, ethylhexyl).			
Oil, abies sibirica, cns.	lb.	2.35	3.10
Almond, artificial, bitter, (see Benzaldehyde)			
natural, bitter, F.P.A., bots.	lb.	3.85	- 5.00
NF, bots.	lb.	3.85	- 4.75
Sweet, dms., cns.	lb.	.75	- .95
Angelica root, bots.	lb.	120.00	-190.00
Seed, bots.	lb.	80.00	-100.00
Anilin (see A).			
Anise, USP, Chinese, dms.	lb.	.72	- 1.05
Apricot kernel, USP, dms.	lb.	.42	- .56
Avocado, cns., dms.	lb.	1.00	1.10
Babassu, crude, tankcars	lb.	.17¾	- —
Bay, NF, Puerto Rican, 50-55%, cns.	lb.	1.20	- 1.50
55-30%, cns.	lb.	1.20	- 1.60
West Indian, 50-55%, cns.	lb.	1.20	- 1.60
Bergamot, artif., cns.	lb.	2.00	- 4.25
natural, Italian, cns.	lb.	4.00	- 4.50
Birchtar, crude, cns.	lb.	.95	- 1.76
rectified, NF, cns.	lb.	4.15	- 4.25
Bois de rose, Brazil	lb.	2.65	- 2.75
Mexican (see Oil, lignaloe wood).			
Bone, dms., works	gal.	.65	- 70
Cajeput, tech., dms.	lb.	1.65	- 2.00
redistilled, USP, cns.	lb.	2.20	- 4.50
Calamus, cns.	lb.	20.00	-28.00
Camphor, natural, white, cns.	lb.	.40	- 50
dms.	lb.	.29	- .40
Cananga, native, cns.	lb.	1.95	- 2.55
rectified, cns.	lb.	2.60	- 2.85
Capsicum (see Capsicum oleoresin).			
Caraway, NF, cns.	lb.	4.75	- 6.50
Cardamom, NF, bots.	lb.	46.50	-55.00
Cassia, USP, cns.	lb.	1.80	- 2.40
Castor, blown, dms., c.l.	lb.	.20¼	- —
dms., l.c.l.	lb.	.20¾	- —
standard, USP, dms., c.l.	lb.	.18¼	- —
l.c.l.	lb.	.18¾	- —
tanks	lb.	.17¼	- —
refined and deodorized, dms., c.l.	lb.	.19¼	- —
dms., l.c.l.	lb.	.20¼	- —
tankcars	lb.	.18¾	- —
dehydrated, bodied, dms., c.l.	lb.	.22	- —
l.c.l.	lb.	.22½	- —
tanks	lb.	.21	- —
unbodied, dms., c.l.	lb.	.21	- —
l.c.l.	lb.	.21½	- —
tanks	lb.	.20	- —
hydrogenated, dms., c.l., works.	lb.	.30	- —
l.c.l., same basis	lb.	.31	- —
No. 3, tech., dms., c.l.	lb.	.17	- —
l.c.l.	lb.	.17½	- —
tanks	lb.	.16	- —
sulphonated, 50% (48% fat), dms	lb.	.12	- .13
75% (60-62% fat), dms.	lb.	.15¾	- .16¼
Cedarleaf, USP, cns., dms.	lb.	1.95	- 2.85
tech., dms.	lb.	1.70	- 1.80
Cedarwood, cns.	lb.	.45	- .55
dms.	lb.	.34	- .50
Celeryseed, bots.	lb.	15.00	-16.50
Chaulmoogra, NF, cns., dms.	lb.	.55	- 70
Chinawood (see Oil, tung).			
Cinnamon bark, bots.	lb.	27.00	-60.00
Leaf, Ceylon	lb.	1.50	- 1.75
Seychelle	lb.	1.20	• —
Citronella, Ceylon, cns.	lb.	.79	- 1.05
Java type, cns.	lb.	1.25	- 1.65
Clove, USP, from Madagascar buds, cns., dms	lb.	1.25	- 1.55
from Zanzibar, buds, cns., dms.	lb.	1.60	- 1.95
Coconut, crude, tanks, Atlantic ports	lb.	.16	• —
Pac. Coast	lb.	.14½	- —
refined, Cochin type, tax incl., dms., l.c.l.	lb.	.21½	- —
deodorized, tax incl., dms., l.c.l.	lb.	.24	• —
Cod, Newfoundland, dms.	lb.	.12	Nom.
Codliver, USP, dms.	gal.	2.40	- 2.45
Coriander, bots.	lb.	29.50	-37.50
Corn, crude, tanks, works	lb.	.11	- .11¼
foots, acid, 95%, tanks, dlvd. E	lb.	.03¾	Nom.
raw, 50%, tanks, dlvd. E	lb.	.01¾	Nom.
refined, tanks, mills	lb.	.13½	- —
dms., New York	lb.	.15½	- .16
Costus, bots.	oz.	30.00	• —
Cottonseed, crude, tanks, Southeast and Valley	lb.	.10¼	- —
foots, acid 95%, tanks, dlvd. E	lb.	.03¾	Nom.
raw, 50%, tanks, dlvd. E	lb.	.01¾	Nom.
refined, dms.	lb.	.15½	- .16
tankcars	lb.	.14	• —
Creosote (see Creosote, coaltar).			
Croton, NF, cns.	lb.	4.75	- 5.50
Crude (see Petroleum, crude).			
Cubeb, cns.	lb.	7.00	- 7.50
Cumin, bots.	lb.	6.25	-11.50
Cypress, bots.	lb.	11.00	-15.00
Degras (see D).			
Dillseed, bots.	lb.	9.00	- 9.50
Dillweed, bots., dms.	lb.	7.35	- 8.60
Dip (see D).			
Erigeron, cns.	lb.	5.00	- 5.25
Eucalyptus, rectified, USP, 80-90%, cns.	lb.	.70	- 1.45
70-80%, cns.	lb.	.58	- 1.30
Fennel, sweet, cns.	lb.	2.75	- 3.00
Fir, Canada, cns.	lb.	1.85	- 1.95
Fishliver, concentrating or feed, 6,000 to 12,000 A units, dms.	1,000,000 units.	.19	• .20
20,000 to 80,000 A units, dms.	1,000,000 units.	.22	• .28
pharmaceutical, 50,000 to 125,000 A units, dms.,	1,000,000 units.	.30	• .31
pharmaceutical or food, 200,000 A units, dms.	1,000,000 units.	.40	• .42
concentrate, 100,000 A units, dms.	1,000,000 units.	.35	• —
200,000 A units, dms.	1,000,000 units.	.40	• —
300,000 A units, dms.	1,000,000 units.	.43	• —
400,000 A units, dms.	1,000,000 units.	.44	• —
500,000 A units, dms.	1,000,000 units.	.47	• —
Fuel (see Petroleum fuel oil).			
Fusel (see F).			
Garlic, pure, bots.	oz.	9.25	- 9.50
Gaultheria (see Oil, wintergreen).			
Geranium, Algerian, cns.	lb.	10.50	-12.00
Bourbon, cns.	lb.	11.00	-13.00
Turkish (see Oil, palmarosa).			
Ginger, dist., bots.	lb.	13.25	-16.00
Grapefruit	lb.	.80	- 1.25
Grease, No. 1, dms.	lb.	.09¾	- .10¼
extra, winter, strained, dms.	lb.	.10¾	- .11½
prime, burning, dms.	lb.	.12¼	- .12¾
Guaiacwood, cns.	lb.	1.85	- 2.15
Hemlock, cns.	lb.	1.85	- 2.75

3 GOOD REASONS WHY IT ALWAYS PAYS TO USE JAVONELLA

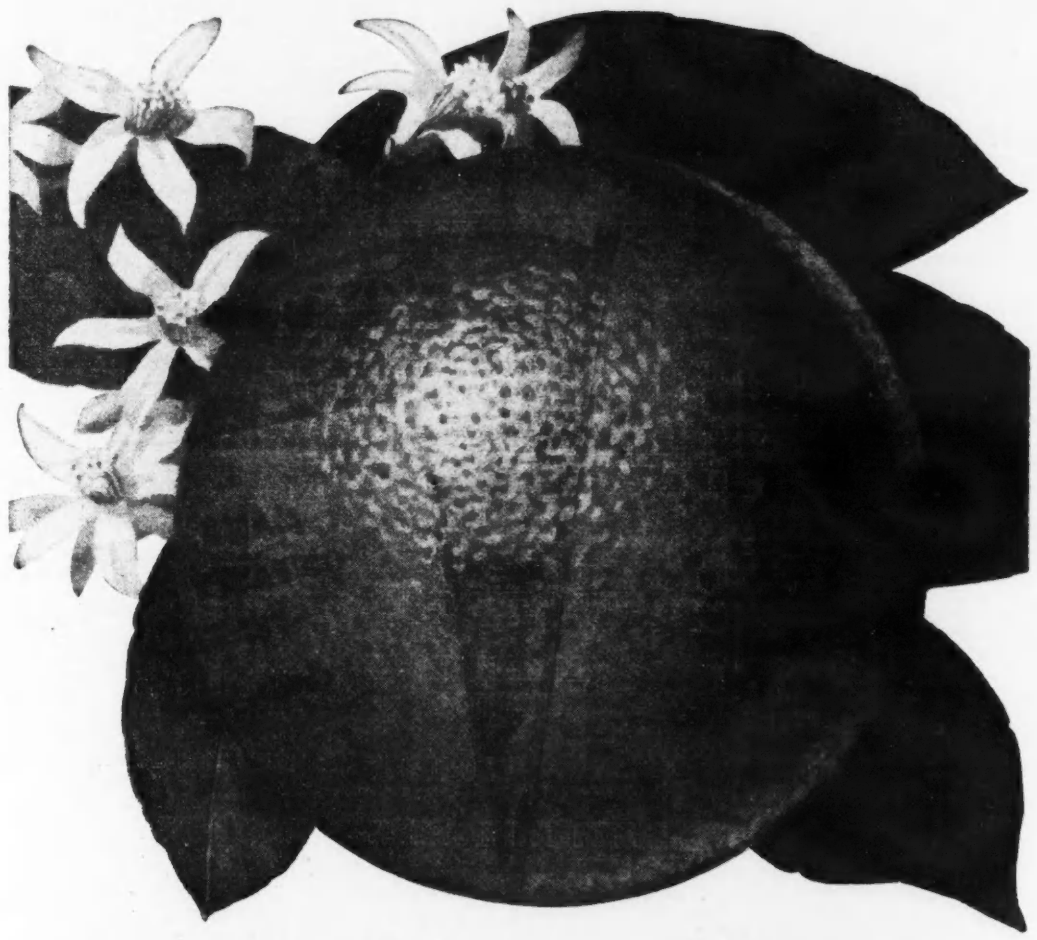
- It's a manufactured article . . . free from the price fluctuations of natural essential oils such as Citronella, Sassafras, etc.
- Its high quality never varies, enabling you to manufacture uniformly dependable products.
- Always lower in cost than the natural oils, its use results in production economies and higher profits without lowering quality standards.

WRITE FOR SAMPLE AND QUOTATION

FELTON CHEMICAL COMPANY, INC.
599 JOHNSON AVE., BROOKLYN 6, NEW YORK
Branches in Boston - Philadelphia - Los Angeles
St. Louis - Chicago - Montreal - Toronto

MANUFACTURERS OF AROMATIC CHEMICALS, ESSENTIAL OILS, PERFUMES AND FLAVORS

Oil, herring, crude, tanks, Pac. coast lb. No prices.
Juniper berry, NF VIII, bots lb. 3.00 - 7.00
twice rectified lb. 4.75 - 5.00
Tar, USP (see Juniper tar).
Wood, tech., cns lb. .63 - 1.00
Lard (see Oil, grease).
Laurel, bots. lb. 9.75 -12.50
Lavandin, cns lb. 1.10 - 1.65
Lavender flower, French, 38-42% ester, cns lb. 3.20 - 4.35
30-32% ester, cns lb. 2.45 - 3.10
Spike, Spanish, cns lb. .90 - 1.05
Lemon, USP, Calif. cns lb. 2.80 - 3.00
Messina lb. 2.60 - 5.00
terpeneless, bots lb. 52.00 -65.00
Lemongrass, cns., dms lb. 1.60 - 2.05
Lignaloe seed, Mexican, cns lb. 4.50 - 4.80
Wood, Brazilian (see Oil, bois de rose).
Mexican, cns lb. 2.75 - 5.20
Lime, distilled, Mexican, cns lb. 7.00 - 7.50
West Indian, cns lb. 7.25 - 7.50
expressed, West Indian, cns lb. 6.75 - 9.75
terpeneless, bot lb. 50.00 -58.00
Linseed, raw, dms., c.l. lb. .2570- —
l.c.l. lb. .2630- .2690
tankcars lb. .24½- —
tankwagon lb. .2480- —
Boiled linseed oil 007 higher than raw.
Lubricating, at refinery, ex tax.
Group 3, bright stock, 150-160 vis., 10-25 p.p tanks, gal. .235 - —
neutral, 300 vis., No. 3, col., 0.10 pour, tanks gal. .21 - .22
200 vis., No. 3, col., 15-25 pour, tanks gal. .18 - .19
145-155 vis., No. 3, color, 10-25 pour, tanks gal. .235 - —
Penna., W, cylinder, 600-680 flash, tanks gal. .33 - .38
600-650 steam refd., tanks, gal. .37 - —
neutral, 70°F, No. 3 color, 150 vis., 25 pour, tanks gal. .37 - .39
290 vis., 25 pour, tanks, gal. .39 - .41
South Texas, neutral, pale, 200 vis., 2¼-4 pour, tanks, gal. .11 - .12
red, 200 vis., 4-6½ pour, tanks gal. .11 - .12⅛
Mace, dist., cns., dms lb. 3.75 - 5.35
Mandarin, Brazilian, cns lb. 4.25 - 8.40
Italian, cns lb. 8.75 - 9.25
Menhaden, crude, tanks, Balto lb. .05½ Nom.
refined, alkali, dms lb. .1180- —
kettle-bodied, dms. lb. .1330- —
light-pressed, dms. lb. .1080- —
tanks lb. .0920- —
Mineral, white (see Oil, white, mineral).
Mirbane (see Nitrobenzene).
Mustard, synthetic, USP, cns lb. 1.40 - 1.70
Seed, expressed, dms lb. 18 - 18½
Neatsfoot, 15°, dms lb. .27 - —
20°, dms. lb. .25 - —
30°, dms. lb. .22 - —
Neroli, French, bots lb. 75.00 -390.00
Haitian, bots lb. 175.00 -200.00
Niaouli, cns. lb. 2.75 - 3.25
Nutmeg, dist., East Indian, cns., dms lb. 3.95 - 5.35
West Indian, cns., dms lb. 3.75 - 4.65
Ocotea cymbarum, dms lb. .46 - .60
Oiticica, liquid, dms lb. .17½ - .18⅛
Oleo, oil, extra, tres lb. .12 - .12⅛
Olibanum, bots lb. 4.50 - 6.25
extra fine, bots lb. 6.25 -10.50
Olive, denat., dms gal. 3.05 - —
edible, Calif., dms gal. 3.40 - —
Spanish, dms., duty-paid gal. 3.50 - 3.60
Moroccan, tms., same basis, gal. 3.45 - 3.50
foots, dms lb. .19¾- .21
sulphonated, 60% (40% fat), dms., c.l. lb. No stocks.
l.c.l. lb. No stocks.
75% (62% fat), dms., c.l. lb. No stocks.
l.c.l. lb. No stocks.
Orange, sweet, natural, dist., cns., lb. .50 - .60
expressed, USP, Brazilian, cns lb. .80 - 1.25
Calif., cns lb. .68 - 1.00
Florida, cns., dms lb. .55 - 1.00
Messina, coppers lb. 3.25 - 5.00
West Indian, cns lb. 2.25 - 3.75
sesquiterpeneless, bots lb. 55.00 -135.00
Origanum, Spanish, cs lb. 2.40 - 3.50
Palm, Congo, dms lb. .13½- —
Palmarosa, cns. lb. 6.50 - 9.00
Palmkernel, crude, bulk, c.i.f. NY lb. No prices.
Paraffin, pale, 100-110 vis. at 100° F, tanks, East Coast refinery gal. .11½- —
Patchouli, dms. lb. 6.10 - 7.50
Peach kernel, USP (see Oil, apricot kernel).
Peanut, crude, tanks, works lb. .13¼- .13⅛
foots, acid, 95%, tanks, dlvd. E lb. .03¾ Nom.
raw, 50%, tanks, dlvd. E lb. .01¾ Nom.
refined, tanks, dlvd. E lb. .16¾- .17
drums lb. .18 - .18¼
Pennyroyal, USP, dom., dms., cns. lb. No stocks.
imported, cns lb. 2.20 - 2.75
Peppermint, natural, dms lb. 5.50 - 6.25
redist., USP, dms lb. 5.95 - 6.75
Persic, USP (see Oil, apricot kernel).
Perilla, crude, cms lb. No stocks.
Petitgrain, Paraguay, cns lb. 2.25 - 2.80
Pimento berry, dms lb. 4.25 - 6.00
leaf, cns lb. 1.50 - 1.80
Pine, dest.-dist., dms., incl., c.l., works, South gal. .60 - .69
l.c.l., works, South gal. .61 - .70
dms., incl., c.l., works, South lb. .07½- —
l.c.l., works, South lb. .08 - —
ex whse., N. Y. C gal. .70 - —
ex whse., N. Y. C lb. .09½- —
tanks, works, South lb. .062 - —
tanks, works, South gal. .60 - —
steam-dist., dms., ex whse., non-ret. dms., incl., l.c.l., ex whse., N. Y. C. lb. .09½- —
Pineneedle, Siberian (See oil, abies siberica).
Putty, petroleum, heavy, dms gal. .18 - —
tankwagon gal. .13½- —
light, dms gal. .16½- —
tankwagon gal. .12½- —
Rapeseed, tankcars lb. .24 Nom.
Red, single dist., dms lb. .11½- .12⅛
tanks lb. .10½- —
saponified, dms lb. .10¾- .11¾
double dist, dms lb. .14 - .15
tanks lb. .12¾- —
Rose, natural, Bulgarian, coppers oz. 25.00 -38.00
Rosemary, Spanish, tech., cns., dms lb. .75 - 1.50
USP, cns., dms lb. .85 - 1.60
Rosin, first rectified, dms gal. .66 - —
2d rectified, dms gal. .68 - —
3d rectified, dms gal. .78 - —
Rue, bots lb. 3.25 - 5.00
Sage, clary, bots lb. 14.30 -16.00
Dalmatian, cns lb. 2.75 - 3.10
Spanish, cns lb. 1.05 - 3.50
Sandalwood, NF, cns lb. 13.75 -16.60
Sardine, crude, tanks, Pac. coast. lb. No stocks.
refined, alkali, dms lb. .1180- —
kettle-bodied, dms. lb. .1330- —
light-pressed, dms lb. .1080- —
tanks lb. .0920- —
Oil, sassafras, artificial lb. .40 - .55
natural, Brazilian (see Oil, ocotea cymbarum).
domestic, USP, cns., dms lb. 1.80 - 2.30
Savin, cns. lb. 3.00 - 3.25
Savory, cns lb. 3.00 - —
Seal, No. 1, tanks, U. S. ports lb. No prices.
Sesame, ref., dms., l.c.l. lb. .41 - —
Shingle stain, bbls., c.l., works gal. .2185- —
l.c.l., works gal. .25 - .29
tanks, works gal. .15 - .16
Snakeroot, Canada, cns lb. 18.75 -19.25
Soybean, crude, tanks, mills lb. .09½- .09¼
foots, acid, 95%, tanks, dlvd. E lb. .03¾ Nom.
raw, 50%, tanks, dlvd. E lb. .01¾ Nom.
refined, alkali, dms., c.l. lb. .1295- —
l.c.l. lb. .1360- .1380
tanks lb. .1175- —
clarified, dms., c.l. lb. .1195- —
l.c.l. lb. .1260- .1280
tanks lb. .1075- —
edible, tankcars, dlvd. East lb. .12 Nom.
drums lb. .13¼- .13¾
Spearmint, dms. lb. 3.55 - 4.10
Sperm, bleached winter 45° tankcars lb. .1770- —
drums lb. .1870- .1920
natural winter 45°, tankcars lb. .16½- —
drums lb. .17½- .18
Spruce, cns., dms lb. 1.85 - 2.75
Sunflower-seed, tnp., refined, tanks lb. No prices.
semi-refined, tanks lb. No prices.
Sweet birch, Northern, cns lb. 5.00 - 8.00
Southern, cns. lb. 1.95 - 3.65
Tall, crude, tanks, works ton. 40.00 - —
refined, dms., c.l., works lb. .06 - —
l.c.l., works lb. .06¼- —
tanks, works lb. .05 - —
Tallow, acidless, dms lb. .09¾- .10¼
Tansy, cns. lb. 8.25 - 9.00
Oil, tar, pine, com'l, dms., incl., c.l., works, South gal. .41 - .43½
l.c.l., works, South gal. .43 - .45½
whse., N.Y.C. gal. .52¼- .54¾
tanks, works, South gal. .32 - .34½
rectified, NF, l.c.l., dms., incl., works, South gal. .60 - —
Tar acid (see T).
Teaseed, dms lb. .25 - —
Theobroma (see Cocoa butter).
Thyme, NF, red, cns lb. 2.05 - 3.35
white, cns lb. 2.30 - 3.80
technical, white, cns lb. .35 - 1.00
Tung, dom., tanks, mills lb. .20 - .20½
imported, dms., c.l. lb. .22 - —
l.c.l. lb. .22½- —
tanks lb. .20¾- .21
Turkey red (see Oil, castor, sulphonated).
Turpentine, rectified, NF, cns., dms lb. .35 - .55
Vetiver, Bourbon, cns lb. 11.75 -14.00
Haitian, cns lb. 11.10 -13.50
Java, cns lb. 10.40 -15.00
Whale, ref., natural, dms lb. No stocks.
Winter-bleached, dms lb. No stocks.
Wheat germ, dms gal. 10.00 -12.50
White mineral, tech., 50 vis., nonret. dms., c.l., San Francisco gal. .51½- —
l.c.l., S.F. gal. .53½- .56½
50-65 vis., dms., c.l., N. Y. gal. .49½- —
l.c.l., N. Y. gal. .52½- .56½
65-75 vis., dms., c.l., N. Y. gal. .49½- —
l.c.l., N. Y. gal. .52½- .56½
70 vis., non-ret. dms., c.l., S.F. gal. .51½- —
l.c.l., S. F gal. .53½- .56½
Oil, white mineral, USP, 80-90 vis., dms., c.l., N. Y. gal. .53 - —
l.c.l., N. Y gal. .56 - .60
65 vis., non-ret. dms., c.l., S. F gal. .51½- —
l.c.l., S. F gal. .53½- .56¼
100 vis., non-ret. dms., c.l., S.F gal. .59 - —
s.c.l., S. F gal. .61 - .64
125-135 vis., dms., c.l., N. Y. gal. .61 - —
l.c.l., N. Y gal. .64 - .68
145 vis., non-ret. dms., c.l., S. F gal. .68 - —
l.c.l., S. F gal. .70 - .76
145-155 vis., dms., c.l., N. Y. gal. .64 - —
l.c.l., N. Y gal. .67 - .71
175-185 vis., dms., c.l., N.Y. gal. .65½- —
l.c.l., N. Y gal. .68½- .72⅛
180 vis., non-ret. dms., c.l., S. F gal. .70 - —
l.c.l., S. F gal. .72 - .75
200-210 vis., dms., c.l., N. Y. gal. .69 - —
l.c.l., N. Y gal. .72 - .76
355-345 vis., dms., c.l., N. Y. gal. .75 - —
l.c.l., N. Y gal. .78 - .82
340 vis., non-ret. dms., c.l., S. F gal. .83 - —
l.c.l., S. F gal. .85 - .88
Wintergreen, nat., Northern, cns. lb. 8.75 -14.50
Southern, cns lb. 3.65 - 5.80
synthetic (see Methyl salicylate).
Wood (see Oil, tung).
Wormseed, NF, cns lb. 3.25 - 3.75
Wormwood, cns. lb. 6.50 - 7.00
Ylang-ylang, Bourbon, bots lb. 7.00 - 7.50
extra, bots. lb. 10.00 -11.00
Madagascar, bots lb. 6.25 - 6.75



THE WORLD'S FINEST ORANGE OIL

Made exclusively from oranges from the Sunkist Groves of California.

Exchange Oil of Orange gives you more *real orange flavor*, drop for drop or pound for pound, than any other orange oil.

Give it all your tests for *quality, uniformity* and *strength*. Then you'll buy Exchange Brand.

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Exchange
OIL OF
ORANGE
U. S. P.

Olein—Petrolatum, Technical

Olein, crude (see Oil, red).
white, low titre, dms..lb. .14 - .15
tankcars ..lb. .12¾- —
Oleostearin, bbls..lb. .09½ Nom.
Olivine, aggregate, c.l., mines..ton. 7.00 - 9.50
crushed, 8 mesh, bulk, c.l., works. ton.10.00 - —
paper, bgs., c.l., works...ton.12.00 - —
Opium, USP, cns. ..lb.19.20 -19.45
gran., USP, cns. ..lb.21.65 -21.90
powd., USP, cns. ..lb.21.65 -21.90
Orange, cadmium lithopone, bbls., frt. alld. E. of Rockies lb. 1.10 - —
Chrome, CP, bbls., dlvd. N. of Tenn. and N. C., E. of Miss. R., includ. Davenport, Tenn. and N. C., E. of Minneapolis, Rock Island, St. Louis, St. Paul, contracts ..lb. .30¼- —
Chrome orange prices are ½c. higher, dlvd. Ala., Fla., Ga., La. (Shreveport); 1¼c. Miss., N. C., S. C., Tenn., Dallas and Ft. Worth, Tex.; 1½c. El Paso, Tex.; 2c. Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph; 1.6c. higher dlvd. Pac. Coast; for Denver, Pueblo, Salt Lake City, Wichita, prices are equalized with Chicago.
Orange, chrome dinitroanilin toner. lb. 1.15 - —
Mineral, American, bbls., l.c.l., ship't point, frt. alld..lb. .1810- —
Molybdate ..lb. .43 - —
Orange, Persian, bbls..lb. .30 - .45
Orange flowers, bls ..lb. .40 - .45
Orange peel, bitter, Haitian, bls lb. .14 - .16
Sweet, bls..lb. .14 - .16
Oregano, Mexican, bgs..lb. .12 - .12½
Portuguese, bgs..lb. .20 - .20½
Sicilian, bgs..lb. .18 - .18½
Orris root, Florentine, bls..lb. .22 - .25
powdered, bbls., bxs..lb. .26 - .29
Verona, bls ..lb. .18 - .19
powdered, bbls., bxs..lb. .22 - .23
Orthoaminobiphenyl, dms., c.l., works..lb. .32½- —
l.c.l., same basis..lb. .33 - —
tanks, same basis..lb. .31 - —
Orthoamylphenol, dms., l.c.l., works. lb. .42 - —
Orthoanisidin, bbls ..lb. .80 - —
Orthochloroanilin, dms., 10,000 lbs. or more..lb. .60 - —
smaller lots..lb. .62 - .67
Orthochloroparanitroanilin, dms., works..lb. .65½- .81
Orthochlorophenol, dms., c.l., frt. equald..lb. .27 - —
l.c.l., same basis..lb. .28 - —
Orthocresol, pure, 30°, dms., c.s., works, frt. equald..lb. .2350- .2405
l.c.l., works..lb. .2400- .2435
tech., 29°-30°, dms., c.l., works lb. .2250- .2305
l.c.l., works..lb. .2300- .2335
25°-27°, dms., c.l., works..lb. .2080- —
l.c.l., same basis..lb. .2110- —
tanks, same basis..lb. .1950- —
Orthodichlorobenzene, 50-lb. cns..lb. .12½- —
100-lb. cns..lb. .11½- —
dms., c.l., works, frt. alld. E. of Rockies..lb. .08½- —
l.c.l., same basis..lb. .09½- —
tanks, same basis..lb. .07 - —
Orthodichlorobenzene prices W. of Rockies 1c. per lb. higher.
Orthoisopropyl N-phenylcarbanate (see IPC).
Orthoisopropylphenol, dms., c.l....lb. .29 - —
l.c.l. ..lb. .30 - —
tanks ..lb. .28 - —
Orthonitroanilin, dms..lb. .50 - .53
Orthonitrochlorobenzene, dms. ...lb. .17 - .18
Orthonitrobiphenyl, tech., dms., c.l., works..lb. .19¼- —
l.c.l., works ..lb. .20 - —
tanks, works ..lb. .18 - —
Orthonitroparachlorophenol, cns..lb. .75 - —
Orthonitrophenol, dms..lb. .66 - .77
Orthonitrotoluene, dms. ..lb. .12 - —
Orthophenetidin, dms., works....lb. .90 - —
Orthotoluidin, dms..lb. .18 - .20
Orthotolidin, distilled, kgs..lb. 1.10 - —
Osage orange crystals, bbls., l.c.l lb. .33½- —
extract, liquid, bbls., l.c.l..lb. .15½- —
Ouabaine, USP, bots ..gram. 3.00 - 4.00
Ox gall, conc., gran., fib. dms., 5 lbs. and up..lb. 2.50 - —
Oxyquinolin sulphate, cns., 100 lbs. works..lb. 5.00 - —
smaller lots, works..lb. 5.10 - 5.25

P

Pancreas substance, assay 1:75...lb. 5.75 - 6.25
Pancreatin, USP..lb. 2.50 - 3.00
Panthenol, bots., works, frt. adjust. kilo.90.00 - —
Papain, powd., NF, cs..lb. 2.00 - 3.00
Papaverine, natural or synthetic, hydrochloride, USP, cns., 1,000-oz. lots..oz. 5.00 - —
smaller lots..oz. 5.05 - 5.20
Sulphate, cns..oz. 7.10 - 7.35
Paprika, Chilean, bgs..lb. .19 - .20
Portuguese, bgs..lb. .34 - .35
Spanish, bgs. ..lb. .41 - .43
Para-anisidin, dms., works..lb. .80 - —
Parachlorophenol, dms., c.l., frt. equald..lb. .27 - —
l.c.l., same basis..lb. .28 - —
Parachloroanilin, dms., frt. alld. E. Miss..lb. .70 - —
Parachloro-orthonitroanilin, dms..lb. No stocks.
Paracresol, 98%, dms., works....lb. .50 - .63
92½-94%, dms., works..lb. .47 - —
Paracymene, dms., works, 50 gals. or more..gal. 2.50 - —
smaller quantities ..gal. 3.00 - —
Paradibromobenzene, bgs., 500-lb. lots, works..lb. .45 - —
Paradichlorobenzene, dms., c.l., works..lb. .11 - —
l.c.l., same basis..lb. .12½- .14
Paraffin, crude, scale, white or yellow, 119-121 ASTM, bbls., c.l., refinery..lb. No prices.
121-123 ASTM, bbls., c.l., ref'y..lb. No prices.
126-128 ASTM, bbls., c.l., ref'y..lb. No prices.
fully ref'd, slabs, 120-122 ASTM, loose, c.l., ref'y..lb. .0690- —
122-124 ASTM, loose, c.l., ref'y. lb. .07 - —
125-127 ASTM, loose, c.l., ref'y. lb. .0710- —
128-130 ASTM, loose, c.l., ref'y lb. .0730- —
130-132 ASTM, loose, c.l., ref'y lb. .0735- —
132-134 ASTM, loose, c.l., ref'y..lb. .0760- —
135-137 ASTM, loose, c.l., ref'y lb. .08 - —
Paraffin prices in bgs. and ctns., 7/10c. per lb. higher; 1,000 to 9,999 lbs., 2.7c. per lb. higher, and under 1,000 lbs., 3.7c. per lb. higher.
Paraformaldehyde, 95%, dms., 1,000 lbs., works..lb. .22 - —
smaller lots, works..lb. .23 - —
91-92%, flake, fib. dms., c.l., works. lb. .11 - —
10,000 lbs. or more, works. lb. 12 - —
smaller lots, works...lb. .13 - —
Paraldehyde, tech., 98%, 55 gals., dms., l.c.l., works..lb. .12½- .13¼
5-10-gal. dms., l.c.l., works..lb. .16½- —
tanks, works..lb. .11 - —
USP, cbys..lb. .51 - .53
Paranitroanilin, kgs., works..lb. .44½- —
Paranitrochlorobenzene, kgs., works. lb. .18 - —
Paranitrophenol, kgs., works, frt. equald..lb. .40 - —
Paranitrotoluene, kgs., works....lb. .39 - —
Paraphenetidin, dms., works..lb. .88 - —
Paraphenylphenol, bgs., works...lb. .28 - .29
Paraphenylenediamine, tech., kgs., works..lb. 1.30 - —
Paratertiarybutylphenol, bgs., c.l., frt. equald..lb. .21 - —
l.c.l., same basis..lb. .22 - —
Parathion tech., dms., c.l., works..lb. 2.50 - —
l.c.l., works..lb. 2.55 - —
Paratoluenesulphonamide, bbls., works..lb. .70 - —
Paratoluidin, bbls., works..lb. .55 - .63
Pareira brava root, whole, bgs...lb. .30 - .31
ground, bxs..lb. .35 - .37
powder, bxs..lb. .38 - .40
Paris green, dealer, distributor, dms., kgs., c.l., works, frt. alld. E..lb. .31 - —
l.c.l., same basis..lb. .32 - .33
Passion flower herb, bls..lb. .26 - .28
Patchouli leaves, bls..lb. .45 - .55
Peanut meal, 45%, sacked, mills. ton.57.00 -58.00
Pectin, citrous, NF, powd., bbls..lb. 2.05 - 2.06
tech., powd., bbls..lb. 1.42 - 1.43
Penicillin, amorphous, calcium, USP, bulk, 500,000,000 to 5,000,000,000 unit lots 100,000 units. .05½- .06¼
Sodium, USP, unlabeled vials, 100,000 units..vl. .12½- —
200,000 units..vl. .18 - —
500,000 units..vl. .34½- —
1,000,000 units..vl. .62 - —
crystalline, potassium, unlabeled vials, 100,000 units..vl. .14½- —
200,000 units..vl. .22 - —
500,000 units..vl. .44½- —
1,000,000 units..vl. .82 - —
bulk, 500,000,000 to 5,000,000,000 unit lots 100,000 units. .06¼- .07¼
procaine, regular or pulverized, bulk, 500,000,000 to 5,000,000,000 units lots. 100,000 units. .07 - .07¾
sodium, unlabeled vials, 100,000 units..vl. .14¾- —
200,000 units..vl. .22½- —
500,000 units..vl. .45¾- —
1,000,000 units..vl. .84½- —
bulk, 500,000,000 to 5,000,000,000-unit lots 100,000 units. .07 - .07¾
Pennyroyal leaves, bls..lb. .28 - .30
Pentachlorophenol, dms., works..lb. .20 - .25
Pentaerythritol, tech., bgs., c.l., works..lb. .29 - —
l.c.l., works..lb. .31 - .33
Di and tri-isomers (see Dipentaerythritol and Tripentaerythritol).
Pentane, industrial, tanks, group 3. gal. .10½- .11¼
Pepper, black, bgs..lb. .99 - 1.00
afloat, bgs. ..lb. .98 - .99
Aug.-Sept. shipt, bgs..lb. .97 - .98
Jan.-Mar., bgs..lb. .74 - .73
Red, Carolina, futures, bgs..lb. .40 - .42
Hontaka, bgs. ..lb. .65 Nom.
Louisiana longs, bgs..lb. .18 Nom.
Mombasa chillies, bgs..lb. .38 - .39
Niger, capsicum, bgs..lb. .38 - .39
birdseye, bgs. ..lb. .65 Nom.
White, bgs. ..lb. 1.52 - 1.55
Peppermint, USP, dom., bls..lb. .50 - .65
imported, bls. ..lb. .95 - 1.05
Pepsin, NF, bulk containers..lb. 3.90 - —
Perchloroethylene, dms., c.l., zone 1, works, frt. alld..lb. .11 - —
zone 2, same basis..lb. .11½- —
zone 3, same basis..lb. .12 - —
zone 4, same basis..lb. .11½- —
l.c.l., zone 1, same basis..lb. .11¾- —
zone 2, same basis..lb. .12¼- —
zone 3, same basis..lb. .12¾- —
zone 4, same basis..lb. .12¼- —
tanks, zone 1, same basis..lb. .10½- —
zone 2, same basis..lb. .11 - —
zone 3, same basis..lb. .11½- —
zone 4, same basis..lb. .11 - —
Perchloroethylene zones are:—(1) Conn., Del., Ill., Ind., Ia., Ky., Me., Md., Mass., Mich., Minn., Mo., Neb. (Omaha), Kans. (Kansas City), N. J., N. Y., N. C., Ohio, Pa., R. I., Tenn., Vt., Va., W. Va., Wis.; (2) Ala., Ark., Fla., Ga., Kansas, La., Miss., Neb., N D., Okla., S. C., S. D.; (3) Colo., Mont., (E) N. M., Tex., Wyo.; (4) Ariz., Cal., Idaho, Mont., (W), Nev., Ore., Utah, Wash.
Peru balsam, dms..lb. .85 - 1.00
Petrolatum, tech., dark, bbls., c.l., group 3..lb. .021 - —
f.o.b. Indiana refy....lb. .04½- —
golden topaz, bbls., c.l.....lb. .032 - —
l.c.l. ..lb. .036 - —
red, veterinary, bbls., c.l....lb. .024 - —
l.c.l. ..lb. .028 - —

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Coconut Oil 76°

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Coconut Hard Butter

Coconut Oil Stearine

Peanut Oil

Hardened Peanut Oil and Flakes

Soya Bean Oil

Hardened Soya Bean Oil and Flakes

Cottonseed Oil

Hardened Cottonseed Oil and Flakes

•

Shortening-Standard and all Hydrogenated

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SPECIAL VEGETABLE COMPOUNDS

MANUFACTURERS OF FATTY ACIDS AND PLASTICIZERS

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Prepared Monthly by U. S. Industrial Chemicals, Inc.

U.S.I. CHEMICAL NEWS

July ★ A Monthly Series for Chemists and Executives of the Solvents and Chemical Consuming Industries ★ 1949

Versatile Pyrenones Give Unusually Wide Range of Pest Control

Highly Effective In Many Important Fields

From restaurant kitchens to huge grain warehouses, many of the most important and varied types of pest control problems are now being solved by U.S.I.'s Pyrenones. Combining unusual safety and effectiveness against a wide range of insects, their use is extending to many vital areas of pest control.

Proven inherently non-toxic to warm-blooded animals in three years of exacting tests, Pyrenones can be used safely on crops while they are growing, in warehouses where food is stored, in plants where food is processed, and in restaurants or homes where food is prepared for eating.

Protect Stored Grain and Grain Products

Pyrenone-type insecticides offer safe, long-lasting control of such grain insects as confused flour beetles, cadelles, grain borers, moths, and the yellow meal worm. For this reason, Pyrenones are highly effective in protection of stored grain or grain products in mills and warehouses, in ships' holds, in grain elevators, in grain box cars, and in interiors of farmers' grain bins.

Valuable Where Food Is Processed Or Prepared

In the important food processing industry, Pyrenone's combination of safety and effectiveness is particularly welcome. Insecticides containing Pyrenones quickly kill the

MORE

New Flat Plastics Lens Is Revolutionary Advance

A new, thin, flat plastics lens, described as revolutionary in the optical field, reportedly weighs only about one-tenth as much as a glass lens. It is cheaper to produce, and yet will magnify, focus, and in other respects perform just like a conventional glass lens, the makers assert. The new-type lens is said to derive its magnifying power from the fact that its apparently flat surface is molded into a series of small concentric grooves which refract light in the same way as does the unbroken curve of a glass or oil-filled plastic lens.

The lightness of the flat plastics lenses permits field lenses of very large area, and their thinness almost eliminates spherical aberration, according to the manufacturers. While not precise enough for the picture-taking lens of a camera, the new-type lens is expected to find wide use as a television magnifier, a production-line inspection lens, a slide-viewer lens, etc.

Makes Paper from Straw

Paper can now be made from almost any kind of straw, it is claimed, using a new chemical process. The individual straw fibers are reportedly broken apart without reducing their length.

17-Mile Channel Turns Land-Locked Harbor Into Excellent Port

Distribution Center for Hydrocarbon Synthesis Chemicals Will Have Access to Fine Facilities for Shipping by Water or Rail

Located at the Port of Brownsville, Texas — the youngest of all ports of major importance — U.S.I.'s new distribution center for hydrocarbon synthesis chemicals will have available the latest in docking, cargo-handling, and other shipping facilities. The port is an artificial harbor which has been connected with the Gulf of Mexico by a 17-mile, straight and unobstructed sea-level channel. The port's facilities include up-to-date docks, the latest in fireproof general cargo wharves, and modern freight and cargo handling machinery.

Construction of the hydrocarbon synthesis plant of Carthage Hydrocol, Inc., the chemical separation and refining plant of Stanolind Oil and Gas Company, and U.S.I.'s chemical storage, compounding and distribution center, is progressing rapidly and should be completed by the end of 1949. U.S.I. will distribute to industry or to its own plants all of the water-soluble oxygenated co-products of the hydrocarbon synthesis process.

New Docks Being Built

In addition to the fine docking facilities already existing at the port, a new 500-foot oil dock is being constructed for Carthage Hydrocol, and adjoining this, special docking facilities for the U.S.I. distribution center will be installed. The fact that transport by rail, barge, or cargo ship is so readily accessible to U.S.I.'s new Brownsville establishment helps assure U.S.I. customers of a dependable and continuous supply of the important alcohols, aldehydes, ketones, and acids to come from the hydrocarbon synthesis.

Low-Octane Motor Fuels Fortified with Alcohol Equal Regular Gasoline

A truck fueled in recent tests with 58-octane gasoline plus periodic injections of alcohol and water is said to have operated as well as it would on regular gasoline having an octane rating of 74 or better.

Researchers reveal that during at least 80 per cent of normal driving, when a car is running on the level at speeds up to about 40 miles per hour, the engine will run satisfactorily on gasoline of 50-octane number or even lower. For this reason, much of the anti-knock quality of ordinary gasoline — 74-octane or better — is in effect wasted. On the other hand, during acceleration, hill-climbing, and in general whenever the engine is working hard, a relatively high-octane fuel is required. Injection then of alcohol-water mixture into the carburetor can provide the needed anti-knock quality, increasing the effective octane number of gasolines by as much as 20 octane units, it is claimed.

Air view of Port of Brownsville, showing the harbor in the foreground and looking east along the 17-mile sea-level ship channel that connects it with the Gulf of Mexico. In the background, just to the left of the point where the harbor narrows into the channel, can be seen the site and the partly completed structures of the plants of Carthage Hydrocol, Stanolind, and U.S.I.

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July ★ # U.S.I. CHEMICAL NEWS ★ 1949

New Fatty Acid Separation

Fatty acids can be separated from soybean, corn, and other vegetable and animal oils by fractional crystallization from acetone, followed by continuous vacuum filtration, a recent patent states. Chilling of the acetone solution causes formation of a two-phase mixture, according to the patent, with the fatty acids to be separated in the solid phase. Then, in a continuous cycle, filtration, washing, and drying are carried out in a vacuum-drum filter, and separation of unsaturates from saturates is claimed to be practically complete. Further separation of stearic from palmitic acid is also said to be possible.

Bone Cancer Is Treated With Radioactive Gallium

Bone cancer can now be attacked directly, a Navy medical man reports, by a radioactive isotope known as gallium-72. The gallium isotope has been tested on mice and dogs, and was recently approved for use on selected human cancer cases, the medical man revealed.

CONTINUED

Versatile Pyrenones

chocolate moth, cheese mites and skippers, fruit flies, silver fish, and cockroaches — yet they create no toxicological hazards.

Similarly, in the home and in restaurants where food is prepared for human consumption, Pyrenones give safe control of these insects, as well as other, common insects like houseflies, fruit flies, gnats, mosquitoes, ants, spiders, and bedbugs.

Controls Insects Attacking Dairy Cows, Range Cattle

Dairymen and cattle ranchers are getting outstanding insect control using a variety of Pyrenone-based formulations — water emulsions, oil-type sprays, dips, dusts, or wettable powders. Treated cows are healthier and give more milk; treated range cattle show sizeable weight gains, and there is no danger of contamination of meat or milk products by the insecticide.

Develops New Rocket Fuel Using Liquid Hydrogen

Using liquid hydrogen cooled to −423°F., researchers have developed a new rocket fuel that generates an exhaust which travels at a speed of 15,000 miles per hour, it is claimed. The university laboratory which developed the fuel has built a motor the size of a man's hand to burn the fuel, it is reported.

Sulfa Drug Damage Is Minimized by Methionine

The sulfur amino acid methionine prevents damage to the thyroid in rats caused by prolonged sulfadiazine intoxication, according to a report made recently in a medical publication. DL-Methionine is now being produced in quantity by U.S.I. to meet the increased demands of the pharmaceutical and feed industries.

Domestic Coal Can Supply High-Grade Montan Wax

Domestic coal sources could be exploited to supply large quantities of high-grade montan wax, recent investigations have shown. Montan wax was formerly imported from Germany, for use in carbon paper, insulation, and many other products.

Subject Index of Reports On European Technology

A new subject index and abstract collection of over a thousand unclassified scientific and technical reports, prepared by a special committee and dealing with European technology, is available now.

TECHNICAL DEVELOPMENTS

Further information regarding the manufacturers of these items may be obtained by writing U.S.I.

For laboratory testing of paints, inks, chemicals, etc., a small mill, said to grind, emulsify, homogenize, mix, and disperse these materials is now available. Adjustment for different grind sizes can be made without stopping and long runs are possible, the makers state. **(No. 469)**

A new adhesive tape for heavy packaging, said to be waterproof, and to have a tensile strength of 180-lbs. per inch of width, and a tear resistance of greater than 1600 gram-centimeters, is reported available. **(No. 470)**

Rust-proofing of fine instruments and other metal articles without greasing or air-tight sealing is possible now, it is claimed, simply by wrapping them loosely in chemically treated paper. **(No. 471)**

A flexible polyethylene pour spout for paint pails is said to be available now as an integral part of a new-type closure described as tamper-, vapor-, rust-, and leak-proof. **(No. 472)**

Carbonated beverages in any of six flavors can now be served, it is claimed, by dropping new, flavored tablets into a glass of water. Tablets eliminate handling of bottles and are said to take little storage space. **(No. 473)**

A new plastic electrical tape has a dielectric strength of over 10,000 volts plus the other electric characteristics of its parent material, polyethylene, the makers state. It is reported to be 10 times more moisture-resistant than vinyl types. **(No. 474)**

A high-flash-point, non-injurious solvent for removing paint, wax, grease, lube oils, or extreme pressure lubricants from skin, wood or metal surfaces is non-corrosive, according to the manufacturers. **(No. 475)**

Aluminum screws, machine bolts, washers, nuts, and nails are reported available now. The fasteners are claimed to resist rust when used with wood or aluminum construction, indoors or out. **(No. 476)**

For applying protective coating films of uniform thickness on plane surfaces, a new compact, direct reading laboratory device is said to be accurate and easy to manipulate, and to have adjustable clearance. **(No. 477)**

To clean and repolish floors in one operation, a new non-slip floor polish has been specially formulated for wood floors, but is also effective for linoleum, linotile, cork, and similar resilient floors, the manufacturers assert. **(No. 478)**

U.S.I INDUSTRIAL CHEMICALS, INC.

60 EAST 42ND ST., NEW YORK 17, N. Y. U.S.I. BRANCHES IN ALL PRINCIPAL CITIES

ALCOHOLS
Amyl Alcohol
Butanol (Normal Butyl Alcohol)
Fusel Oil—Refined
Ethanol (Ethyl Alcohol)
Specially Denatured—all regular and anhydrous formulas
Completely Denatured—all regular and anhydrous formulas
Pure—190 proof, C.P. 96%, Absolute
*Solox—proprietary solvent
ANTI-FREEZES
*Super Pyro Anti-freeze
U.S.I. Permanent Anti-freeze
***ANSOLS**
Ansol M
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OXALIC ESTERS
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Diethyl Oxalate
PHTHALIC ESTERS
Diamyl Phthalate
Dibutyl Phthalate
Diethyl Phthalate
OTHER ESTERS
*Diatol
Diethyl Carbonate
Ethyl Chloroformate

INTERMEDIATES
Acetoacetanilide
Acetoacet-ortho-anisidide
Acetoacet-ortho-chloroanilide
Acetoacet-ortho-toluidide
Acetoacet-para-chloroanilide
Ethyl Acetoacetate
Ethyl Benzoylacetate
Ethyl Sodium Oxalacetate
ETHERS
Ethyl Ether, U.S.P.
Ethyl Ether Absolute—A.C.S.
FEED PRODUCTS
Riboflavin Concentrates *Vacatone 40
*Curbay B-G *Special Liquid Curbay
DL-Methionine
ACETONE
Chemically Pure

RESINS (Synthetic and Natural)
*Aroplaz—alkyds and allied materials
*Arofene—pure phenolics
*Arochem—modified types
Ester Gums—all types
Congo Gums—raw, fused & esterified
Natural Resins—all standard grades
INSECTICIDE MATERIALS
CPR Concentrates
Piperonyl Butoxide
Piperonyl Cyclonene
*Pyrenone Concentrates
Pyrethrum Products
Rotenone Products
INSECTIFUGE MATERIALS
*Indalone
Triple-Mix Repellents
OTHER PRODUCTS
Collodions Urethan, U.S.P.
Nitrocellulose Solutions
Ethylene

*Registered Trade Mark

Printed in U.S.A.

Petrolatum, USP, amber, non-ret. dms., c.l.	lb.	.04⅞-	—
Pennsylvania refy.	lb.	.04½-	—
l.c.l.	lb.	.06 -	—
California refy.	lb.	.08¼ -	—
cream, c.l., dms.	lb.	.06⅝-	—
l.c.l.	lb.	.08¼ -	—
extra, amber, dms., c.l.	lb.	.05½-	—
Pennsylvania refy.	lb.	.04⅝-	—
l.c.l.	lb.	.06¼ -	—
white, lily, dms., c.l.	lb.	.06⅞-	—
l.c.l.	lb.	.08½ -	—
snow, dms., c.l.	lb.	.07⅛-	—
Pennsylvania refy.	lb.	.07⅝-	—
l.c.l.	lb.	.08¾ -	—
California refy.	lb.	.12 -	—
soft, dms., c.l.	lb.	.06⅝-	—
Pennsylvania refy.	lb.	.06⅜-	—
l.c.l.	lb.	.07¾ -	—
California refy.	lb.	.10½ -	—
yellow, soft, dms., c.l.	lb.	.03 -	—
Pennsylvania refy.	lb.	.04⅝-	—
l.c.l.	lb.	.06½ -	—
California refy.	lb.	.08⅜-	—
Petroleum, crude, bulk, at wells, California	bbl.	1.25	- 2.94
Illinois	bbl.	2.46	- 2.88
Kentucky	bbl.	2.43	- 2.83
Louisiana-Arkansas	bbl.	2.08	- 2.90
Montana	bbl.	1.28	- 2.775
Oklahoma-Kansas	bbl.	2.23	- 2.65
Pennsylvania, lower field	bbl.	3.40	- —
Upper field	bbl.	2.70	- 3.40
Texas, East	bbl.	2.65	- —
Gulf coast	bbl.	2.38	- 2.93
North, North-Central	bbl.	2.23	- 2.65
Panhandle	bbl.	2.23	- 2.65
West	bbl.	2.10	- 2.65
Wyoming	bbl.	1.28	- 2.875
Ether, laboratory, 30°-60° C, cns., dlvd. E.	gal.	1.50	- —
dms., c.l., group 3	gal.	.26	- —
l.c.l., same basis	gal.	.44	- —
35°-60° C, 10-gal. cns., dlvd. E.	gal.	1.50	- —
dms., c.l., Group 3	gal.	.26	- —
l.c.l., same basis	gal.	.44	- —
40°-75° C, 10-gal. cns., dlvd. E.	gal.	1.50	- —
dms., c.l., Group 3	gal.	.26	- —
l.c.l., same basis	gal.	.44	- —
90°-160° C, ret. dms., ex tax, f.o.b. San Francisco	gal.	.57	- —
Fuel oil, bunker C, No. 6, California, heavy tanks, refinery	bbl.	1.85	- 2.05
light, tanks, refinery	bbl.	2.05	- 2.25
Eastern, tanks, Albany, N. Y.	bbl.	2.00	- —
Baltimore, Md.	bbl.	1.63	- —
Boston, Mass.	bbl.	1.68	- 1.83
Charleston, S. C.	bbl.	1.58	- —
Jacksonville, Fla.	bbl.	1.58	- —
New York, N. Y.	bbl.	1.63	- 1.72
Norfolk, Va.	bbl.	1.63	- —
Philadelphia, Pa.	bbl.	1.63	- —
Portland, Me.	bbl.	1.68	- —
Providence, R. I.	bbl.	1.655	- —
Savannah, Ga.	bbl.	1.58	- —
Diesel, tanks, refinery, California	gal.	.081	- .115
Pennsylvania	gal.	.0875-	.0925
Furnace, tanks, refinery, Arkansas, No. 2	gal.	.06875-	—
No. 3	gal.	.065	- —
Bayonne, N. J., No. 2	gal.	.075	- —
Group 3, No. 1	gal.	.07	- .08
No. 1, straw	gal.	.07	- .08125
No. 2, straw	gal.	.0625-	.085
range	gal.	.07	- .0875
Pennsylvania, No. 1	gal.	.0925-	.1025
No. 2	gal.	.0875-	.10
No. 3	gal.	.0875-	.0925
Lacquer diluent, California, 170-225 F, b.r., tanks, ex tax, f.o.b. Los Angeles	gal.	.147	- —
235 F, b.r., tanks, ex-tax, Portland, Ore.	gal.	.158	- —
San Francisco	gal.	.152	- —
Seattle, Wash.	gal.	.158	- —
East coast, tanks, N. J. and N. Y. refinery	gal.	.16	- —
Group 3, benzol-type, tanks, refinery	gal.	.12125-	—
toluol-type, tanks, refinery	gal.	.11125-	.12125
Mineral spirits, California, 170-205 b.r., tanks, ex tax, f.o.b. San Francisco	gal.	.152	- —
205-295 b.r., tanks, same basis	gal.	.152	- —
245-360 b.r., tanks, same basis	gal.	.152	- —
305-362 b.r., tanks, same basis	gal.	.142	- —
312-400 b.r., tanks, same basis	gal.	.142	- —
360-455 b.r., tanks, same basis	gal.	.152	- —
East coast, tanks, N. J., N. Y., refinery	gal.	.14	- —
Group 3, tanks	gal.	.09875-	.10625
tankwagon, Baltimore	gal.	.175	- —
Boston	gal.	.16	- —
Buffalo	gal.	.165	- —
Camden, N. J.	gal.	.15	- —
Chicago	gal.	.197	- —
Detroit	gal.	.214	- —
Kansas City, Mo.	gal.	.182	- —
Newark	gal.	.15	- —
New York	gal.	.15	- —
Philadelphia	gal.	.14	- —
Pittsburgh	gal.	.175	- —
Providence	gal.	.165	- —
Rochester	gal.	.18	- —
St. Louis	gal.	.19	- —
Syracuse	gal.	.19	- —
Washington, D. C.	gal.	.175	- —
Naphtha, cleaners, California, tanks, San Francisco	gal.	.123	- —
East coast, tanks, N. J., N.Y., refinery	gal.	.14	- —
Group 3, tanks	gal.	.10875-	.11625
tankwagons, St. Louis	gal.	.19	- —
Newark	gal.	.15	- —
Chicago	gal.	.197	- —
Detroit	gal.	.214	- —
New York	gal.	.15	- —
Philadelphia	gal.	.14	- —
high-flash, 140° F, group 3, refinery tanks	gal.	.13	- .145
200-235 b.r., 37-38°C. mixed anilin pt., tanks, refinery	gal.	.20	- .21½
25-26°C, m.a.p., tanks, same basis	gal.	.21	- .24
270-370 b.r., 78-81°C, m.a.p., tanks, same basis	gal.	.23½-	—
49°C, m.ap., tanks, same basis	gal.	.26½-	—
26-27°C, m.a.p., tanks, same basis	gal.	.21	- .24½
300-400 b.r., 28-32°C, m.a.p., tanks, same basis	gal.	.21	- .27
340-410 b.r., 27°C, m.a.p., tanks, same basis	gal.	.30½-	—
32°C, m.a.p., tanks, same basis	gal.	.21	- —
36°C, m.a.p., tanks, same basis	gal.	.21	- —
340-440 b.r., 32°C, m.a.p., tanks, same basis	gal.	.25½-	.27
360-480 b.r., 25°C, m.a.p., tanks, same basis	gal.	.21	- —
V.M.&P., ref'y, California, 245-360 b.r., tanks, ex tax, f.o.b. Los Angeles	gal.	.147	- —
Portland, Ore.	gal.	.158	- —
San Francisco	gal.	.152	- —
Seattle, Wash.	gal.	.158	- —
East coast, N. J., N. Y., tanks.	gal.	.15	—
Group 3, tanks	gal.	.10875-	.11625
Petroleum naphtha, V.M.&P., tankwagon, Boston	gal.	.175	- —
Chicago	gal.	.207	- —
Detroit	gal.	.224	- —
Milwaukee	gal.	.209	- —
Minneapolis	gal.	.207	- —
Newark	gal.	.165	- —
New York	gal.	.165	- —
Philadelphia	gal.	.165	- —
Pittsburgh	gal.	.185	- —
St. Louis	gal.	.20	- —
Solvent, rubber, California, tanks, ex tax, San Francisco	gal.	.152	- —
East coast, N. J., N. Y.,	gal.	.15	—
Group 3, tanks	gal.	.10375-	.10875
Stoddard, California, tanks, ex tax, San Francisco	gal.	.142	- —
East coast, N. J., N. Y., tanks	gal.	.14	—
Group 3, tanks	gal.	.09875-	.11125
Pennsylvania, western, tanks,	gal.	.10	—
tankwagon, Boston	gal.	.16	- —
Chicago	gal.	.197	- —
Detroit	gal.	.214	- —
Milwaukee	gal.	.199	- —
Minneapolis	gal.	.197	- —
Newark	gal.	.15	- —
New York	gal.	.15	- —
Philadelphia	gal.	.14	- —
Pittsburgh	gal.	.175	- —
St. Louis	gal.	.19	- —
Syracuse	gal.	.19	- —
Sulphonate, 70% sulphonic content,, ret. dms., c.l., works	lb.	.1715-	—
l.c.l., works	lb.	.1750-	—
tanks, works	lb.	.1525-	—
50% sulphonic content, ret. dms., c.l., works	lb.	.1363-	—
l.c.l., works	lb.	.1400-	—
tanks, works	lb.	.1175-	—
Phenobarbital, USP, dms., 100 lbs.	lb.	4.00	- 4.35
Phenobarbital-sodium, USP, dms.	lb.	4.00	- 4.10
Phenol, 90-92% (cresol, 8-10%), dms., c.l., frt. alld. and frt. equald. E. of Rockies.	lb.	.1275-	—
l.c.l., same basis	lb.	.1350-	—
tanks, same basis	lb.	.1100-	—
82-84% (cresol, 16-18%), dms., c.l., same basis	lb.	.1275-	—
l.c.l., same basis	lb.	.1350-	—
tanks, same basis	lb.	.1100-	—
USP, dms., c.l., same basis	lb.	.13½-	.1425
l.c.l., same basis	lb.	.1425-	.1500
tanks, same basis	lb.	.1250-	—
Phenolphthalein, USP yellow, obls., dms., 2,000 lbs	lb.	1.00	- —
smaller lots	lb.	1.01	- 1.04
Phenothiazin, NF, fib. dms., 18,000 lbs., works	lb.	.44	- —
smaller lots, works	lb.	.46	- —
Phenylacetaldehyde solution, 50%, bots	lb.	2.35	2.65
100%, bots	lb.	4.00	- 4.75
Phenylacetamide, dms., works, 1,000 lb. lots	lb.	1.25	- —
smaller lots	lb.	1.60	- —
Phenyl acetate, dms., 100-lb. lots, works	lb.	.50	- —
Salicylate (see Salol).			
Phenylalanine dextro laevo, dms, works	lb.	30.00	-37.50
Phenyldiethanolamine, dms., c.l., works	lb.	.35½-	—
l.c.l., works	lb.	.36½-	—
Phenylethanolamine, dms., c.l., works	lb.	.67½-	—
l.c.l., same basis	lb.	.68½-	—

Petrolatum, USP—Phosphate Rock

Phenylethyl acetate, dms.	lb.	1.45	- 2.70
Phenylethylphenyl acetate, bots.	lb.	3.75	- 6.00
Phenylhydrazin base, CP, bots	lb.	3.00	- 3.07
Hydrochloride, CP, bots., works.	lb.	5.00	- 6.07
commercial, kgs., works	lb.	1.75	- —
Phenylmethylpyrazolone, dms., works	lb.	1.58	- 1.60
Phloroglucinol, CP, fib. dms., works	lb.	13.75	-15.75
commercial fib. dms., works	lb.	4.50	- 7.00
tech., fib., dms., works	lb.	10.00	-10.75
Phosgene, 150-lb. cyls., works	lb.	.20½-	—
10-lb. cyls., works	lb.	1.50	- —
Phosphate, defluorinated (see under D).			
Phosphate rock, Florida, land pebble, run-of-mine, washed, dried, unground, 68-66%, b.p.l., bulk, c.l., car at mine	long ton.	3.60	- —
70%-68%, b.p.l., c.l., same basis	long ton.	4.00	- —
72%-70%, b.p.l., c.l., same basis	long ton.	4.60	- 4.80
75%-74%, b.p.l., c.l., same basis	long ton.	5.60	- 5.80
77%-76%, b.p.l., c.l., same basis	long ton.	6.60	- 6.80
finely ground, 65% b.p.l., basis 30% P_2O_5 minimum	short ton.	4.93	- —
68%, b.p.l., basis 31% P_2O_5 minimum	short ton.	5.28	- —
70%, b.p.l., basis 32% P_2O_5 minimum	short ton.	5.83	- —

plus or minus usual bonus adjustment clause for oil and labor. Prices on entirely pebble, 50c. per long ton higher than above quotations.

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UNITED STATES STEEL

Phosphate Rock, Tennessee—Purple, Lake

Phosphate rock, Tennessee, brown, run of mine, unground, 27-28% P_2O_5 long ton. 6.45 - —
30-29% P_2O_5 long ton. 7.21 - —
Phosphorus, red, amorphous, cs lb. .33 - .36
tins, export lb. .34 - .37
Yellow, cns lb. .30 - .37
dms., c.l. lb. .26 - —
Phosphorus oxychloride, dms., works lb. .12 - .15
Pentasulphide, dms., c.l., works lb. .11 - —
l.c.l., dms., works lb. .12 - .13
Pentoxide, dms., c.l., works lb. .12 - —
l.c.l., works lb. .13 - .14
Sesquisulphide, tins, cs., works lb. .28 - .29
dms., export lb. .33½- .36
Trichloride, dms., c.l., works lb. .12 - .15
l.c.l., works lb. .13 - .16
Phthalamide, bbls., works lb. .35 - .40
kgs., works lb. .45 - .50
Phthalic anhydride, bgs., bbls., c.l., works, frt. equald lb. .22½- —
l.c.l., same basis lb. .23½- —
Phthalic anhydride prices on Pacific Coast same as above.
Pichi leaves, bgs lb. .07 - .08
Picoline (see Alphapicoline and Betapicoline).
Picrotoxin, USP, bots oz. 8.00 - —
Pilocarpine hydrochloride, NF, bots., vials oz. 6.50 - 7.50
Nitrate, USP, bots, vials oz. 6.25 - 7.25
Pimento, Jamaica, bgs lb. .22½- .23
Pinetar, retort, dms., incl., c.l., works, South lb. .045 - —
l.c.l., same basis lb. .0473- —
whse., N.Y.C. lb. .0595- —
tanks, works, South lb. .035 - —
Pinkroot, bls lb. 1.85 - 2.00
Piperidine, 95%, dms., frt. equald. lb. 1.65 - —
98%, dms., same basis lb. 1.75 - —
Piperazine hexahydrate, bots lb. 8.50 - 9.00
Pipsissewa herb (see Prince's pine).
Pitch, coaltar, 150°F. m.p., bbls., c.l., works ton.34.00 - —
l.c.l., works ton.36.00 -37.00
Cottonseed, dms., works lb. .08 - .08½
Hardwood, paper bgs., c.l., works. lb. .02 - —
Linseed, dms lb. No prices.
Petroleum (see Asphaltum, Mexican, Texas).
Pine, ums., ex whse. East 100 lbs. 6.90 - —
Soybean, dms., works lb. .06 - .06½
Plaster of paris (see Gypsum).
Platinum metal, works oz.69.00 -72.00
Pokeroot, bls lb. .14 - .16
Pleurisy roots, bls lb. .25 - .26
Podophyllin, NF, dms lb.14.25 - —
Polystyrene, plain colors, dms., 29,920 lbs., frt. alld lb. .32 - —
20,020 lbs. to 20,920 lbs., same basis lb. .32 - —
smaller lots, same basis lb. .34 - —
Special colors, dms., 29,920 lbs., same basis lb. .32 - —
20,020 lbs. to 20,920 lbs., same basis lb. .35 - —
smaller lots, same basis lb. .37 - .50
Water-clear, dms., 29,920 lbs., same basis lb. .26 - —
20,020 lbs. to 20,920 lbs., same basis lb. .27 - —
smaller lots, same basis lb. .28 - —
Polystyrene in bgs. ½c. per lb. lower.
Pomegranate root bark, bgs lb. .68 - .70
Poppy flowers, bls lb. .50 - .55
Seed, Dutch, bgs lb. .17¾- .18
Polish, bgs. lb. .14½- .15
Turkish, bgs., futures lb. .13½- .13¾
Potash, caustic, low-chloride, flake, 90%, dms., c.l., works 100 lbs. 9.55 - —
l.c.l., works 100 lbs. 9.75 - —
liquid, dms., c.l., 45%, works. 100 lbs. 4.525 - —
l.c.l., works 100 lbs. 5.025 - —
tanks, works 100 lbs. 4.20 - —
solid, 90%, dms., c.l., works. 100 lbs. 9.15 - —
l.c.l., works 100 lbs. 9.90 - —
regular, flake, 88-92% dms., c.l., works lb. .0815- —
l.c.l., works lb. .089 - —
liquid, 45% basis, dms., c.l., works lb. .03725- —
l.c.l., same basis lb. .0450- —
tanks, same basis lb. .0340- —
solid, 88-92%, dms., c.l., works. lb. .0755- —
l.c.l. lb. .0830- —
Potassium abietate lb. .68 - —
Acetate, USP, dms lb. .31 - —
Bicarbonate, USP, gran., dms lb. .20 - .22
powd., dms lb. .22 - .24
Bichromate, bgs., c.l., works lb. .12¾- —
l.c.l., bgs., works lb. .12⅞- .13⅜
Potassium bichromate in bbls., ¼c. higher.
Bitartrate (see Cream of tartar).
Borate, gran., bbls., c.l., works ton.192.00 - —
ton lots, works ton.245.50 - —
less ton lots, works ton.250.50 - —
Bromate, bbls., 1,000 lbs. or more. lb. .48 - —
25-200 lbs lb. .60 - —
Bromide, USP, cryst., gran., bbls., kgs lb. .53 - .54
Potassium carbonate, tech., calcined, bbls., c.l., works lb. .0780- —
l.c.l., same basis lb. .0830- —
hydrated, 83-85%, bbls., c.l., works lb. .06¼- —
dms., l.c.l., works lb. .06¾- —
USP, gran., bbls., dms lb. .16½- .18
powd., bbls., dms lb. .21 - .23
Chromate, tech., bgs lb. .25 - .29
Chlorate, cryst., kgs., c.l., works lb. .08½- —
l.c.l., works lb. .09¾- —
powd., dms., kgs., c.l., works lb. .09 - —
l.c.l., works lb. .09¾- —
export, kgs., 1 to 10 tons, ex whse lb. .12 - —
NF, gran., dms lb. .31 - .33
Chloride, USP, cryst., dms lb. .26 - .27
gran., bbls lb. .20 - .22
powd., bbls lb. .29 - .32
Citrate, USP, gran., dms lb. .37½- .38½
powder, dms. lb. .40½- .41½
Cyanide, dms., works lb. .55 - —
Fluoride, dms., works lb. .24 - —
Glutonate, dms. lb. .75 - .79
Glycerophosphate, 75% solution, cbys lb. 2.05 - 2.20
Guiacol sulphonate, NF, dms lb. 1.80 - 1.85
Hydroxide, tech. (see Potash, caustic).
USP, pellets, jars lb. .33 - —
Hypochlorite, liquid, cbys., dms., works 100 lbs. 3.50 - —
Hypophosphite, NF, 50-lb. lots, fib. dms lb. .90 - .93
Iodide, dms. lb. 2.10 - 2.13
Manure salt, 22% K_2O, bulk, mines unit-ton. .20 - —
25% K_2O, bulk, mines unit-ton. .21 - —
Metabisulphite, gran., bbls lb. .21 - —
powd., bbls lb. .25 - —
Muriate, dom., 60% K_2O, bulk, Carlsbad, N. M. unit-ton. .37½- —
Trona, Cal unit-ton. .45½- —
Nitrate (see Saltpeter).
Oxalate, neutral, tech., fine gran., bbls lb. .30 - .32
purified, dms. lb. .42 - .44
Perchlorate, kgs., c.l., works lb. .13½- —
dms., l.c.l., works lb. .14 - 15
Permanganate, tech., dms., works, lb. .21¾- .22¾
USP, dms., works lb. .23½- .24
ex whse lb. .29 - —
Persulphate, dms., c.l., works lb. .17 - —
l.c.l., works lb. .21 - —
Phosphate, tetrabasic, bbls., works lb. .13 - .13¾
Prussiate, red, kgs lb. .60 - .63
yellow, bbls lb. .21 - —
kegs lb. .26 - —
Ricinoleate, tech., bbls lb. .18 - —
Silicate, glass, bgs., c.l., works ton.200.00 - —
l.c.l. 100 lbs.15.25 - —
Solution, 29° Be, ret. dms., c.l., works 100 lbs. 4.25 - —
l.c.l., 5 or more, works. 100 lbs. 5.00 - —
1-4, works 100 lbs. 5.50 - —
62° Be, net, dms., c.l., works. 100 lbs. 4.75 - —
l.c.l., 5 or more, works. 100 lbs. 5.50 - —
1-4, works 100 lbs. 6.00 - —
40.5° Be, ret. dms., c.l., works. 100 lbs. 5.75 - —
l.c.l., 5 or more, works. 100 lbs. 6.50 - —
1-4, works 100 lbs. 7.00 - —
Silicofluoride, bbls., works lb. .07 - .08
Sulphate, agricultural, dom., bulk, basis 90-95% K_2SO_4, min. 90%, works ton.32.50 - —
indust., bulk, works ton.36.00 - —
NF, cryst., bbls. lb. .31 - .33
gran., dms. lb. .18½- —
powder, dms. lb. .17 - —
Sulphocyanide, cryst., NF (see Potassium thiocyanate).
Thiocyanate, cryst., NF, dms. lb. .70 - .78
tech., works lb. .45 - .50
Titanate, ctns., c.l., works lb. .12 - —
5 tons, works lb. .12¼- —
1 ton or less, works lb. .12½- .13
Potassium-magnesium sulphate, bulk, min., 40% K_2SO_4, 18-50% MgO, works ton.14.50 - —
Potassium-sodium ferricyanide, kgs., works lb. .50 - .53
Potassium-sodium tartrate (see Rochelle salt).
Potassium-titanium fluoride, fib. dms., works lb. .45 - .55
Potassium-titanium oxalate, bbls., dms lb. .55 - .60
Potassium-zirconium fluoride, fib. dms., c.l., works lb. .50 - —
l.c.l., works lb. .52½- .55
Prickly ash bark, bls lb. .25 - .27
Berries, bgs lb. .55 - .75
Prince's pine herb, bls lb. .54 - .60
Procaine hydrochloride, USP, cns., 200-lb. lots lb. 4.25 - 4.75
smaller lots lb. 4.40 - 5.25
Progesterone, USP, 100 gms gm. 3.75 - —
Propane, commercial grade, tanks, group 3 gal. .02½- —
Propionaldehyde, dms., c.l., works lb. .28½- —
l.c.l., works lb. .29½- —
tanks, works lb. .25 - —
Propylaldehyde (see Propionaldehyde)
Parahydroxybenzoate, USP, dms lb. 2.30 - 2.40
Propylene dichloride, dms., c.l. lb. .08½- —
l.c.l. lb. .09½- —
smaller containers lb. .12½- —
tanks lb. .07 - —
Oxide, dms., c.l., frt. alld. E lb. .20½- —
l.c.l., frt. alld. E lb. .21½- —
tanks, frt equald. E lb. .18½- —
Propyleneglycol NF, dms., c.l., frt. alld. E lb. .17½- —
l.c.l., same basis lb. .18½- —
tanks, same basis lb. .16 - —
tech., dms., c.l., frt. alld. E lb. .16½- —
l.c.l., same basis lb. .17½- —
tanks, same basis lb. .15 - —
Methylether, dms., c.l., frt. equald. lb. .18 - —
l.c.l., same basis lb. .18½- —
tanks, same basis lb. .16½- —
Propylthiouracil, bots., 50 kilos or more, works kilo.55.00 - —
smaller lots, works lb.55.30 - —
Psyllium seed, black, bgs lb. .25 - .26
blonde, bgs lb. .21 - .26
husks, bgs lb. .55 - .65
Pulsatilla herb, bls lb. .55 - .60
Pumice, dom., grd., course, 0, 1, 1½, 2, 3, bgs., ton lots. lb. .03⅝- .04
Chicago, bgs., ton lots lb. .04½- —
smaller lots lb. .03⅞- .04¼
fine, bgs., ton lots lb. .03⅜- —
smaller lots lb. .03⅝- .04
Italian, silk-screen, fine, bgs., ton lots lb. .04 - —
coarse, bgs., ton lb. .05½- —
sun dried, fine, bgs., ton lots lb. .03 - —
coarse, bgs., ton lots lb. .04½- —
Pumice in bbls is ½c. per lb higher.
Pumpkin seed, bgs lb. .18 - .26
Purple lake (see Red).

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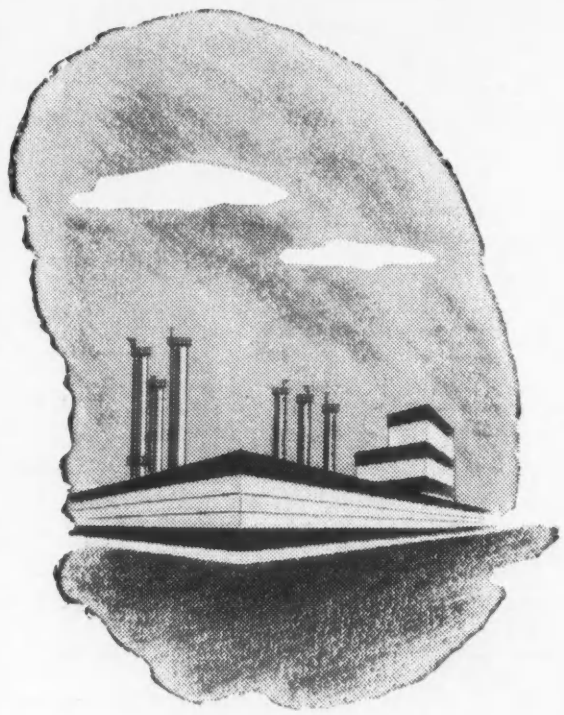

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Monochlorobenzene
o-Dichlorobenzene
Hydrogen Chloride, Anhydrous

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DOW
CHEMICALS INDISPENSABLE TO INDUSTRY AND AGRICULTURE

Pyrethrum concentrate, dewaxed, 20%; for aerosol bombs, dms., works..lb.10.00 -11.00
liquid (20 to 1), basis 1 grams pyrethrins per 100cc., odorless base, dms., works..gal. 7.50 - 8.50
regular base, dms., works, gal. 7.40 - 8.40
(30 to 1) base 3 grams pyrethrins, per 100cc., odorless base, bbls., works..gal.11.10 -12.60
regular base, dms., works, gal.11.00 -12.50
Flowers, fine-grd., 0.9% pyrethrins, bbls., works lb. .33 - .37
powder, 1.3% pyrethrins, bbls., works..lb. .46 - .52
Pyridin, denaturing, dms., works and frt. equald., c.l..gal. 2.00 - 2.69
l.c.l. .....gal. 2.00 - 2.72
refd., 2° non-ret. dms., c.l., same basis..lb. .79 - .79½
l.c.l., same basis.....lb. .80 - —
ret. dms., c.l., same basis..lb. .79 - —
lb. .79 - —
l.c.l., same basis.....lb. .79½ - —
Pyridoxin hydrochloride, 100-gram lots..gram. .55 - —
Pyrites, Spanish, c.i.f. Atl ports, long-ton. 8.00 - —
Pyrocatechin (see Catechol).
Pyrophyllite, standard, 200 mesh, bulk, c.l., mines..ton.11.00 -11.50
230 mesh bulk, c.l., mines..ton.12.00 - —
325 mesh, bulk, c.l., mines..ton.15.00 - —
No. 3, 200 mesh bulk c.l., mines, ton. 9.50 - —
insecticide grade, 200 mesh, bulk, c.l., mines..ton. 9.00 -10.00
rubber grade, 140 mesh, bulk, c.l., mines..ton. 7.00 - —

Pyrophyllite in paper bgs., $3 to $3.50 per ton extra.

Pyroxylin scrap, opaque, amber, cs., works..lb. .17 - —
black, cs., works.....lb. .14 - —
gray, cs., works.....lb. .14 - —
mixed, mottled, cs., works lb. .12 - —
white, china, ivory, cs., works, lb. .17 - —
dense, cs., works.....lb. .17 - —
translucent, pastels, cs., works, lb. .17 - —
transparent, colorless, cs., works lb. .19 - —
colors, cs., works.....lb. .17 - —
shavings, opaque, amber, cs., works..lb. .15 - —
mixed, colors, cs., works..lb. .14 - —
white, cs., works.....lb .17 - —
USP, bots., divd.....lb. 9.54 - —

Q

Quassia chips, bls.....lb. .08 - .09
Quebracho extract, clarified, grd., 70% tannin, bgs., c.l., duty extra lb. .17½ Nom.
liq., 35% tannin, bbls., works, lb. .09 - —
tanks, same basis.....lb. .08¼ - —
solid, 64% tannin, bgs., c.l., duty extra lb. .11½ - —
powd., 70% tannin, bgs., c.l., same basis lb. .18 Nom.
ordinary, solid, 63% tannin, bgs., c.l., ex dock, same basis, lb. .10¾ - —

Quebracho extract prices are based on $20.40 freight and $1 insurance per long ton.

Queen of the meadow root, bgs. lb. .12 - .16
Quercitron crystals, bbls., l.c.l. lb. .33½ - —
Extract, liquid, bbls., l.c.l.....lb. .14½ - —
solid, bxs.....lb. .28 - —
Quicksilver, flasks (76 lbs.) net, flask.79.00 -84.00
Quince seed, bgs.....lb. .95 - 1.75
Quinindine, NF, V, cryst., cns..oz. 2.10 - —
powd., precip., cns.....oz. 2.05 - —
Sulphate, USP, cns.....oz. 1.35 - —
Quinine, NF, cns., 100 ozs.....oz. 1.00 - —
Bisulphate, USP, cns., 100 ozs..oz. .73 - —
Dihydrochloride, USP.....oz. 1.00 - —
Ethylcarbonate, NF, cns., 100 ozs. oz. 1.07 - —
Hydrobromide, NF, cns., 50-oz. cns oz. .91 - —
Hydrochloride, USP, cns., 100 ozs. lb. .91 - —
Hypophosphite, cns., 100 ozs..oz. 1.35 - —
Phosphate, NF, cns., 100 ozs..oz. 1.10 - —
Salicylate, NF, cns., 100 ozs..oz. .93 - —
Sulphate, USP, cns., 100 ozs....oz. .80½ - —
Quinine-urea hydrochloride, NF, cns oz. .97 - —
Quinolin, dms., c.l., works.....lb. .50¾ - .54¼
l.c.l., same basis.....lb. .51¼ - .55
tanks.....lb. .50 - .51

R

R salt, paste, dry basis, dms. ....lb. .70 - .75
Raspberries, dried, bbls. .....lb. 1.90 - 2.00
Red, alizarin lake, bbls., divd. N. of Tenn. and N. C., E. of Miss. including St. Paul, Minneapolis, Davenport, Rock Island, St. Louis..lb. 1.45 - 2.23

Prices ½c. per lb. higher divd. Ala., Fla., Ga., La. (Shreveport, 1¼c.), Miss., N. C., S. C., Tenn., Tex. (Dallas, Ft. Worth, 1¼c.), (El Paso, 2c.), Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph, 1.6c. per lb. higher, divd. Pacific coast prices equated with Chicago, divd. Denver, Pueblo, Salt Lake City, Wichita.

Cadmium lithopone, deep shade, bbls., frt. alld. E. of Rockies, lb. 1.35 - —
light shade, bbls., same basis, lb. 1.20 - —
maroon, bbls., same basis....lb. 1.45 - 1.55
medium shade, bbls., same basis..lb. 1.30 - —
medium-light shade, bbls., same basis..lb. 1.25 - —
orange-red, bbls., same basis lb. 1.15 - —

Red cadmium lithopone, all shades, in smaller pkgs., 5c. per lb. higher; all prices are 1c. per lb. higher ex whse. Los Angeles and San Francisco.

Carmine, No. 40 (see Carmine).
Crocus martis (see Red, maroon iron oxide).
Dyes (see Dyes, coaltar).
Eosin toner, bbls., works.....lb. .133 - —
Indian, dom., pure, bgs., Bethlehem, Easton, E. St. Louis, N. Y..lb. .11½ - .11¾
Iron oxide, synth., bgs.....lb. .11½ - .11¾
75%-85% copperas oxide, bgs., l.c.l., Bethlehem, Pa., Copley, O.; Easton, Pa.; E. St. Louis, and Trenton, N. J lb. .05¼ - .09¼
special, high color, all shades lb. 1.00 - —
Lake C toner alizarin, bbls., works, lb. 1.05 - —
Lithol toner, bbls., works.....lb. .80 - —
Red, lithol-rubin toner, alizarin, lake, bbls., works..lb. 1.40 - —
Maroon, alizarin lake, 25%, kgs., works..lb. .40 - .43
toner, bbls., works.....lb. 1.35 - 1.50
Cadmium, deep, bbls., works lb. 1.20 - —
regular, bbls., works.....lb. 1.10 - —
Iron oxide, bgs., l.c.l., works..lb. .04 - —
MNPT toner, kgs., works....lb. 3.25 - —

Maroons in smaller pkgs., 5c. per lb. higher

Mercury oxide, tech., bbls., 10,000 lbs., works..lb. 2.00 - —
smaller lots, works.....lb. 2.02 - —
Metallic, bbls., works .....lb. .02½ - .02¾
Oxide (see Red, iron oxide).
Persian gulf, bgs., works....lb. .06¾ - .07
Para toner, bbls .....lb. .85 - .88
chlorinated, kgs .....lb. .95 - 1.05
concentrated alizarin lake, kgs., works lb. .80 - —
Phloxin toner (see eosin toner).
Phosphotungstic, rhodamine Y, kgs., works lb. 4.45 - —
Pink lake alizarin, bbls., works lb. .20 - .25
Purple lake, kgs.....lb. 1.35 - —
Rose lake, alizarin, bbls., works.lb. .25 - .28
Spanish oxide, grade 1, bbls., c.l., ex dock..lb. .05½ - .05¾
l.c.l., ex dock.....lb. .05¾ - .06
ex whse., New York ...lb. .06½ - —
grade 2, bbls., c.l., ex dock lb. .05¼ - .05½
l.c.l., ex dock.....lb. .05½ - .05¾
ex whse., New York ..lb. .06¼ - —
Toluidin toner (MNPT), kgs., works lb. 1.35 - —
Turkey, bbls., works .....lb. .14½ - —
Tuscan, bbls., frt. equald .....lb. .24½ - .25
Venetian, 15%, bgs., works....lb. .0350 - —
20%, bgs., works.....lb. .0360 - —
25%, bgs., works.....lb. .0410 - —
30%, bgs., works.....lb. .0440 - —
35%, bgs., works.....lb. .0465 - —
40%, bgs., works.....lb. .0490 - —
Red, vermilion, Amer., bbls.....lb. .32 - —
Quicksilver, ctns.....lb. 2.27 - —
Red Precipitate, NF, powd., fib. dms..lb. 2.17 - 2.19
Red saunders wood, grd., bbls..lb. .35 - —
Rennin, NF.....lb. 6.50 - —
Resorcinol, tech., dms., works...lb. .75 - —
USP, cryst., dms., works.....lb. 1.80 - —
powd., dms., works.....lb. 2.00 - —
Monoacetate, NF, dms.....lb. 3.25 - 3.45
Rhantany root, bgs.....lb .10 - .12
Rhubarb root, whole, cs .....lb. .85 - 1.05
powd., bbls .....lb. .90 - 1.25
Riboflavin, USP, bots .....kilo.125.00 - —
Readily soluble, bots .....kilo.175.00 - —
Rice bran concentrate, dms., Cedartown, Ga..lb. .79 - —
Rochelle salt, USP, gran., powd., bbls., 5,000 lbs..lb. .26½ - —
smaller lots .....lb. .29 - .30
Rose flowers, pale, bls .....lb. .20 - .24
Rosemary flowers, bls.....lb. 1.55 - 1.65
Leaves, French, bls.....lb. .12 - .17
Portuguese, bls.....lb. .06 - .06½
Spanish, bls.....lb. .08 - .08½
Rosin, gum (see Naval Stores, Protective Coatings market).
Wood, B, dms., c.l., works 100 lbs. 4.25 - —
FF, dms., c.l., works ...100 lbs. 5.50 - —
G, H, I, dms., c.l., works 100 lbs. 6.48 - —
K, dms., c.l., works .....100 lbs. 6.48 - —
M, dms., c.l., works.....100 lbs. 6.48 - —
N, dms., c.l., works ....100 lbs. 6.48 - —
WG, dms., c.l., works....100 lbs. 6.48 - —
WW, dms., c.l., works....100 lbs. 6.60 - —
X, dms., c.l., works....100 lbs. 6.70 - —
Rotenone, C.P., bbls., works....lb.20.00 - —
tech., works .....lb.16.50 - —
Rottenstone, bgs., c.l., mines....ton.36.00 - —
l.c.l., mines.....ton.43.00 - —
Rue herb, bls .....lb. .40 - .43
Rutin, 10 kilos, fib. dms .....gram. .07½ - .12
5 kilos, fib. dms .....gram. .07½ - .13
smaller lots, fib. dms.....gram. .08 - .13¼

S

Sabadilla seed, powd., bbls .....lb. .30 - —
activated ground with lime, bbls..lb. .26 - .27
Saccharin, USP, gran., soluble, 1,000 lbs..lb. 1.50 - —
smaller lots .....lb. 1.60 - 1.70
powd., soluble, insoluble, dms., 1,000-lb. lots..lb. 1.55 - —
smaller lots .....lb. 1.65 - 1.85
Safflower, Egyptian, bls.....lb. .90 - 1.00
Saffron, Mexican, bls .....lb. 1.20 - 1.35
Spanish, USP, tins .....lb.17.00 -18.00
Safrol, dms .....lb. .68 - .75
Sage, Cyprus, bls .....lb. .08 - .09
Dalmatian, bls .....lb. .23½ - .24
Greek, fancy, bls .....lb. .13½ - .14
Spanish, bls.....lb. .13½ - .14
Syrian, bgs .....lb. .21 Nom.
Sago flour, bgs.....lb. .07 - .07¼
Saligenin, ctns., works .....lb.14.00 -25.00
Salol, NF, gran., bbls., kgs.....lb. 1.00 - —
fib. dms .....lb. 1.02 - 1.03
powdered salol, 10c. higher
Salt, rock, burlap bgs., c.l. 100 lbs. .96 - —
l.c.l. .....100 lbs. 1.19 - 1.22
paper bgs., c.l.....100 lbs. .88 - —
l.c.l. .....100 lbs. 1.09 - 1.12
Salt, table, vacuum, common, fine, bgs., works, c.l. 100 lbs. .98 - 1.03
l.c.l., bgs. divd. .....100 lbs. 1.20 - 1.32
USP, dms .....lb. .21 - —
Saltcake, dom., bulk, divd.....ton.22.00 -24.00

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Boron has three valency electrons which it shares with three electrons from the fluorine atoms. Thus, there are only six shared electrons of eight needed to complete the boron octet. Consequently boron trifluoride is highly reactive, forming complexes with a large number of materials, these complexes serving as intermediates in numerous catalytic processes.

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Saltpeter—Sodium Oxalate

Saltpeter cryst., bbls., 10 tons. 100 lbs. 13.90 - —
smaller lots 100 lbs. 14.15 - 14.40
gran., bbls., 20 tons 100 lbs. 9.25 - —
smaller lots 100 lbs. 10.50 - 11.00
powd., bbls., 20 tons 100 lbs. 10.25 - —
smaller lots 100 lbs. 11.50 - 12.00
NF, gran., dms lb. .15¾ - .17¾
Saltpeter in bags 25c. per 100 lbs. less than in barrels; in kegs, $1 more.

Sanguinarine nitrate, bots oz. 4.75 - 5.50
Santonin, NF, cryst., powd., cns kilo. 190.00 - 200.00
Saponin No. 1, cns lb. 2.45 - —

Sarsaparilla root, dom., bls lb. .40 - .45
Honduras, bls. lb. .40 - .45
Mexican, bls lb. .24 - .30
Sassafras bark, ord., bls lb. .30 - .31
select, bls lb. .60 - .65
Savory, French, bls lb. .17 - .18
Spanish, bls lb. .14 - .14½
Saw palmetto berries, bgs. lb. .23 - .24
Scammony resin, lump, cns lb. 2.10 - 2.25
powd., cns lb. 2.20 - 2.30
Root, bgs lb. .11 - .13
Schaeffer's salt, bgs. lb .60 - .67
Scopolamine hydrobromide (see Hyoscine hydrobromide).
Seidlitz mixture, bbls., 5,000 lbs lb. .25¾ - —
smaller lots lb. .26¼ - —
dms., 100 lbs. or less lb. .27¼ - .31¼
Selenium, powd., cns., 10-lb. lots lb. 2.10 - —
cs., 1,000-lb lots lb. 2.00 - —
Senega root, bls lb. 1.40 - 1.45
Senna leaf, Alex., half-leaf, bls lb. .22 - .24
sifting, bgs lb. .19 - .21
Tinnevelly, No. 1, bls lb. .17 - .24
No. 2, bls lb. .14 - .19
No. 3, bls lb. .11 - .14
Pods, bls lb. .12 - .15
powdered, bls., bxs. lb. .16 - .22

Serpentaria root, bls lb. 2.25 - 2.50
Sesame seed, Brazil, bgs., afloat lb. .16½ - .17
Chinese, white, nat., bgs lb. .12 - .13
hulled, bgs lb. .19 - .20
Nicaragua, hulled lb. .25 - .26
Salvadorean lb. .13 - .13¼
Turkish, yellow lb. .14½ - .15
Shellac, bleached, conedry, bgs., 1,500-lb. lots lb. .61½ - —
bbls., 1,500-lb. lots lb. .62 - —
kgs., 1,500-lb. lots lb. .64 - —
refined, bgs., 1,000-lb. lots lb. .71½ - —
bbls., 1,500-lb. lots lb. .72 - —
kgs., 1,500-lb. lots lb. .74 - —
bonedry shellac prices for less than 1,500 lbs., 1c. per lb. higher for all packages.

Lemon, No. 1, bgs lb. .66 - .67
No. 2, bgs lb. .64 - .65
Superfine, bgs., 10 bgs lb. .59 - .60
TN, bgs., 10 bgs lb. .56 - .57
Shellac in 1 to 9 bgs., 1c. more
Silica amorph., dry-grd., 325 mesh, bgs., c.l., lil. works ton. 20.00 - 30.00
l.c.l., works ton. 25.00 - 40.00
hard-quartz, 99½%, 325 mesh, bgs., c.l., works ton. 20.00 - —
l.c.l., works ton. 25.00 - —
99½%, 140 mesh, bgs., c.l., works ton. 12.00 - —
l.c.l., works ton. 17.00 - —
Tetrachloride, tech., dms., c.l., works lb. .14½ - —
l.c.l., works lb. .18½ - .20½
Silver bullion, ingots, cs oz. .71½ - —
Cyanide, 6b. dms., 2,500-oz. lots. oz. .65¾ - —
1,000-oz. lots oz. .65⅞ - —
500-oz. lots oz. .65⅞ - —
100-oz. lots oz. .66⅛ - —

Silver nitrate, CP, cryst., bots., 2,500-oz. lots oz. .45¾ - —
1,000-oz. lots oz. .46½ - —
500-oz. lots oz. .47¼ - —
250-oz. lots oz. .48 - —
USP granular silver nitrate, 2c. per oz. higher.
Proteinate, mild, USP, bots., dms., 1,000-oz. lots oz. .85 - —
strong, NF, bots., dms., 1,000-oz. lots oz. .90 - —
Simaruba bark, bls. lb. .85 Nom.
Skullcap herb, Eastern, bls lb. .75 - .80
Western, bls lb. .30 - .35
Skunk cabbage root, bls lb. .35 - .40
Slate flour, bgs., c.l., works ton. 11.00 - 12.00
l.c.l., ex whse ton. 20.00 - 60.00
Sloe berries, bgs lb. .33 - .40
Smalt, black, ctns lb. .11 - —
Blue, ctns lb. .16 - —
Snakeroot, Canada, bls lb. .43 - .45
Soapbark, cs lb. .22 - .23
crushed, bls., bbls lb. .28 - .30
cut, foreign, bbls lb. .29 - .31
powd., bbls lb. .31 - .33
Soda ash, dense, 58%, paper bgs., c.l., works 100 lbs. 1.50 - —
l.c.l., stock points 100 lbs. 2.75 - 4.52
bbls., c.l., works 100 lbs. 2.00 - —
l.c.l., stock points 100 lbs. 3.25 - 5.02
bulk, c.l., works 100 lbs. 1.25 - —
light, 58%, paper bgs., c.l., works 100 lbs. 1.40 - —
l.c.l., stock points 100 lbs. 2.65 - 4.42
bbls., c.l., works 100 lbs. 1.90 - —
l.c.l., stock points 100 lbs. 3.15 - 4.92
bulk, c.l., works 100 lbs. 1.15 - —
Caustic, flake, powd., 76%, dms., c.l., works 100 lbs. 3.45 - —
l.c.l., stock points 100 lbs. 4.80 - 6.67

Soda caustic, liquid, 50%, sellers' tanks, works, dry basis 100 lbs. 2.40 - —
rayon-type, tanks, works, dry basis 100 lbs. 2.40 - 2.50
70%, sellers' tanks, works, dry basis 100 lbs. 2.50 - —
rayon-type, tanks, works, dry basis 100 lbs. 2.60 - —
solid, 76%, dms., c.l., works 100 lbs. 3.05 - —
l.c.l., stock points 100 lbs. 4.40 - 6.27
Sal, bgs., c.l., ex car 100 lbs. 1.56 - —
l.c.l., bgs., ex whse 100 lbs. 1.75 - —
Soda-lime, USP, dms lb. .23 - .28
Sodium acetate, anhyd., dms., works lb. .10 - .11¼
NF, cryst., bbls., works lb. .08 - .09
Alginate, refined, water soluble, bbls., works lb. .79 - —
semi-refined, bbls., works lb. .46 - —
NF, white, powd., dms., works, ton lots lb. 1.25 - —
smaller lots lb. 1.30 - 1.65
Alkylbenzene-sulphate, dms., wks., lb. .13 - —
Aluminate, 20,000 lbs., or more bgs 100 lbs. 8.50 - —
under 20,000 lbs., works 100 lbs. 9.50 - —
Antimoniate, bbls., c.l., dlvd. f.e. lb. .31 - —
l.c.l., dlvd lb. .32 - —
Arsenate, dealers, dms., c.l., works, lb. .12 - —
Arsenite, dealers, dms., works lb. .13¼ - .14¼
solution, dms., works gal. .70 - 1.00
l.c.l., works lb. .11¾ - .11⅞
Benzoate, tech., bbls., dms., 100 lbs. or more lb. .39 - —
bbls., dms., 100 lbs. or more lb. .46 - —
Bicarbonate, USP, gran., bgs., c.l., works 100 lbs. 2.35 - —
l.c.l., works 100 lbs. 3.00 - —
powd., bgs., c.l., works 100 lbs. 1.95 - —
l.c.l., works 100 lbs. 2.60 - —
Bichromate, bgs., c.l., works lb. .10 - —
l.c.l., works lb. .10½ - .10⅝
Sodium bichromate, in bbls., ¼c. higher.
Bifluoride, bbls., c.l., works, frt. equald lb. .13¼ - —
l.c.l., same basis lb. .13½ - —
Bisulphate, bulk, c.l., works 100 lbs. 1.75 - —
dms., c.l., works 100 lbs. 2.40 - —
l.c.l., works 100 lbs. 2.90 - —
Bisulphite, powd., bbls., c.l., works 100 lbs. 3.75 - —
l.c.l., works 100 lbs. 4.00 - —
solut. 35°, bbls., c.l., works 100 lbs. 1.10 - —
l.c.l., works 100 lbs 1.50 - —
Borate (see Borax).
Bromide, USP, bbls., kgs., works lb. .33 - .34
Cacodylate, NF, bots., dms lb. 7.15 - 8.00
Carbonate (see Soda ash, Soda sal, Sodium monohydrate).
USP monohydrate, dms lb. .05¾ - .06⅛
Chlorate, cryst., dms., c.l., works. lb. .07½ - —
l.c.l., works lb. .07¾ - .08⅛
powd., kgs., works lb. .09 - —
Chloride (see Salt).
Chlorite, tech., dms., works lb. .75 - —
Chromate, bbls., dms., c.l., works. lb. .11¾ - —
Citrate, USP VIII, bbls lb. .21½ - —
dms. lb. .22½ - .26⅛
USP XIII, gran., bbls lb. .28 - —
dms. lb. .29 - .33
Sodium citrate, USP XIII, powd., prices ½c. higher.
Cyanate, dms., ton lots, works lb. .75 - —
smaller lots, works lb. .85 - —
Cyanide, 96-98%, dms lb. .17 - .17¼
Diacetate, 33-35% acidity, bbls., works lb. .11½ - .12¼
anhydrous, dms., works lb. .14 - .15
Fluoride, white, 98%, bbls., c.l., works lb. .10½ - —
l.c.l., works lb. .10¾ - —
95%, bbls., c.l., works lb. .10¾ - —
l.c.l., works lb. .11 - —
Fluoroacetate, monobasic, 8-oz. tins, 50 to a case, works. lb. 12.00 - —
2 to 25 tins to case, works lb. 12.00 - 16.50
1 oz. tins, 16 to 64 to case, works lb. 16.50 - 21.00
tribasic, tons lb. 11.00 - —
Formate, bgs., c.l., dlvd. 100 lbs. 7.10 - —
l.c.l. 100 lbs. 8.15 - —
Gluconate, dms. lb. .83 - .85
Glutamate, monobasic, kgs. lb. 1.54 - 1.56
Glycerophosphate, NF, flake, bbls. lb. 1.65 - 1.80
powder, bbls. lb. 1.70 - 1.85
solution, 75%, cbys. lb. 1.00 - 1.15
50%, cbys. lb. .82 - —
Hydrosulphide (see Sodium, sulphydrate).
Hydrosulphite, dms., c.l., frt. alld. lb. .21 - —
l.c.l., frt. alld lb. .21½ - .22
Hydroxide, tech. (see Soda, caustic).
USP, pellets, dms lb. .23 - —
Hypophosphite, NF, 50-lb. lots, dms lb. .85 - .88
Hyposulphite, tech., cryst., bgs., c.l., works, frt. equald. 100 lbs. 3.50 - —
l.c.l., same basis 100 lbs. 3.90 - —
pea cryst., bgs., metro area 100 lbs. 3.75 - —
Soda, hyposulphite, crystals in bbls., 40c higher; pea crystals, dms., 50c. higher.
USP (see Sodium thiosulphate).
Iodide, USP, dms., jars lb. 2.72 - 2.83
Lactate, edible, 50%, dms., c.l., works lb. .18 - —
l.c.l., dms., works lb. .18¾ - —
tech., 50%, dms., c.l., works lb. .12½ - .15
l.c.l., dms., works lb. .13 - .15¾
Metaborate, octa-hydrate, gran., bgs., c.l., works ton. 73.00 - —
l.c.l., works ton. 118.00 - 123.00
tetrahydrate, c.l., bbls., works. ton. 184.50 - —
Sodium metaborate in bbls., $20 per ton higher.
Metal, dms., works lb. .18½ - —
Metanilate, bgs. lb. .57 - —
Metasilicate, anhyd., bbls., c.l., works 100 lbs. 4.25 - —
gran., bgs., c.l., works 100 lbs. 3.25 - —
l.c.l. 100 lbs. 4.35 - 4.60
bbls., c.l., works 100 lbs. 3.65 - —
l.c.l. 100 lbs. 4.75 - 5.00
Molybdate, anhyd., works lb. .51½ - .63
Monohydrate, bgs., c.l., works. 100 lbs. 2.00 - —
l.c.l., works 100 lbs. 2.45 - —
Naphthionate, bbls lb. .60 - .65
Nitrate, crude, dom., bgs., c.l., works ton. 48.50 - —
bulk, c.l., works lb. 45.00 - —
imp., 100-lb. bgs., c.l., Atl Gulf, Pac.whse ton. 54.50 - —
bulk, c.l., same basis ton. 51.00 - —
USP, dms lb. .21 - —
Nitrite, 90%, bbls., c.l., works, frt. equald lb. .06¾ - —
West coast ports 100 lbs. 8.00 - 8.05
l.c.l., dlvd 100 lbs. 8.90 - 11.00
Orthosilicate, anhyd., dms., c.l., works 100 lbs. 5.25 - —
l.c.l., same basis 100 lbs. 5.55 - 7.10
hydrated, flake, bbls., c.l., works. 100 lbs. 4.25 - —
l.c.l., works 100 lbs. 5.50 - 5.75
Oxalate, neut., bgs., works lb. .09½ - —

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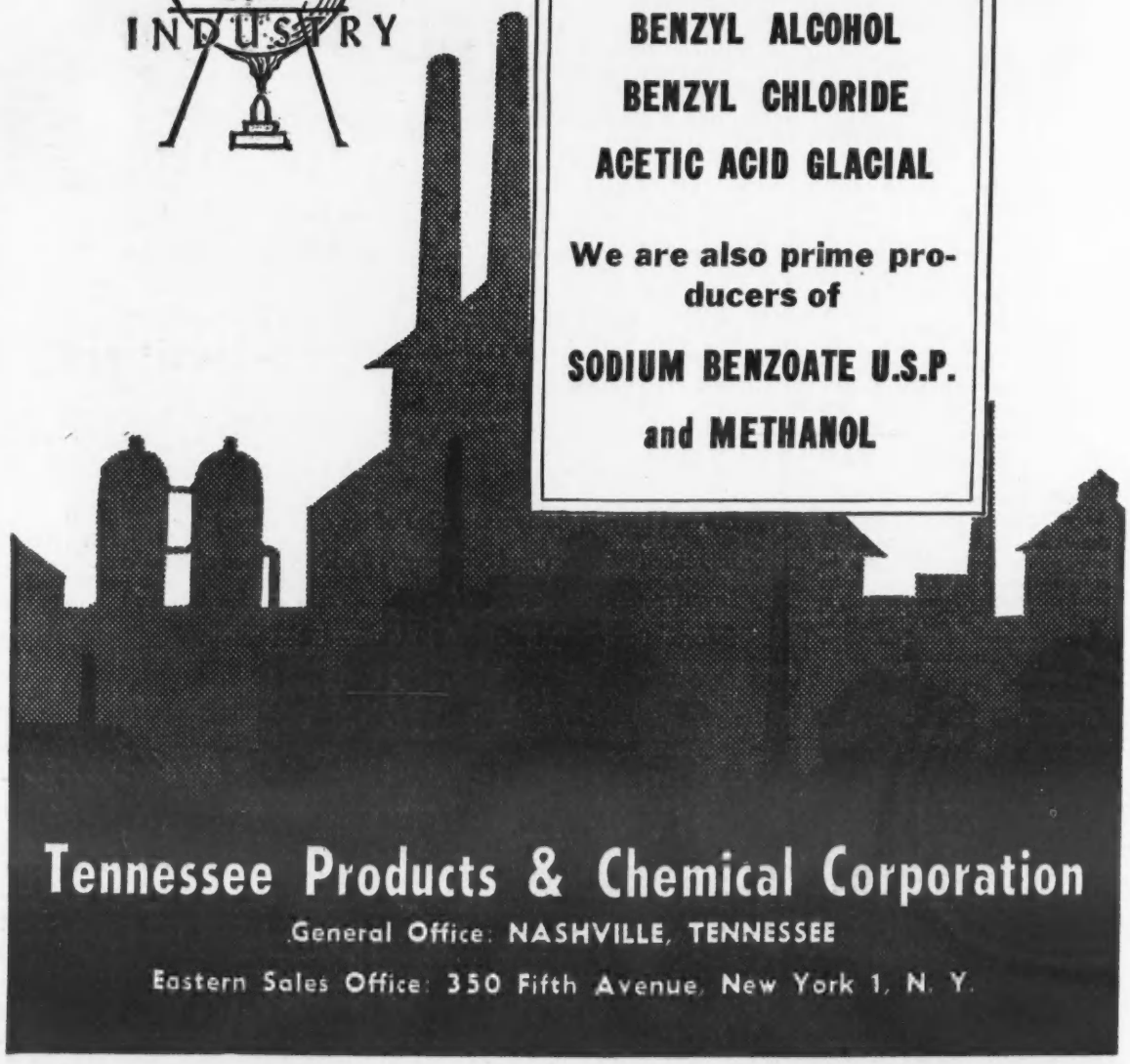


Tennessee Products & Chemical Corporation

General Office: NASHVILLE, TENNESSEE

Eastern Sales Office: 350 Fifth Avenue, New York 1, N. Y.

Sodium Pentachlorophenate—Sulphur

Sodium pentachlorophenate, briquets, bgs., c.l., works, frt. equald	lb.	.21½	—
l.c.l., same basis	lb.	.22½	.24½
pellets, bgs., c.l., same basis,	lb.	.21	—
l.c.l., same basis	lb.	.22	.26
powd., bgs., c.l., same basis	lb.	.20	—
l.c.l., same basis	lb.	.21	.24
Perborate, USP, tech., bbls., c.l., works	lb.	.18¾	—
l.c.l., works	lb.	.19¼	—
Peroxide, dms., c.l., dlvd. E. of Miss	lb.	.16	—
smaller lots, same basis	lb.	.19	—
Phenolsulphonate, USP IX, gran., dms	lb.	.33	.34
powd., dms.	lb.	.36	.37
Phosphate, dibasic, anhyd., bgs., c.l., works	100 lbs.	6.75	7.00
l.c.l., works	100 lbs.	7.25	7.50
cryst., bgs., c.l., works,	100 lbs.	3.35	3.50
l.c.l., works	100 lbs.	3.75	3.90
USP, dried, powd., dms., works	lb.	.20	.20½
monobasic, anhyd., bgs., c.l., works	100 lbs.	10.00	—
l.c.l., works	100 lbs.	12.85	—
tribasic, anhyd., bgs., c.l., works, frt. equald	100 lbs.	No stocks	
l.c.l., same basis	100 lbs.	No stocks.	
cryst., bgs., c.l., works, frt. equald	100 lbs.	3.75	—
l.c.l., same basis	100 lbs.	4.25	—

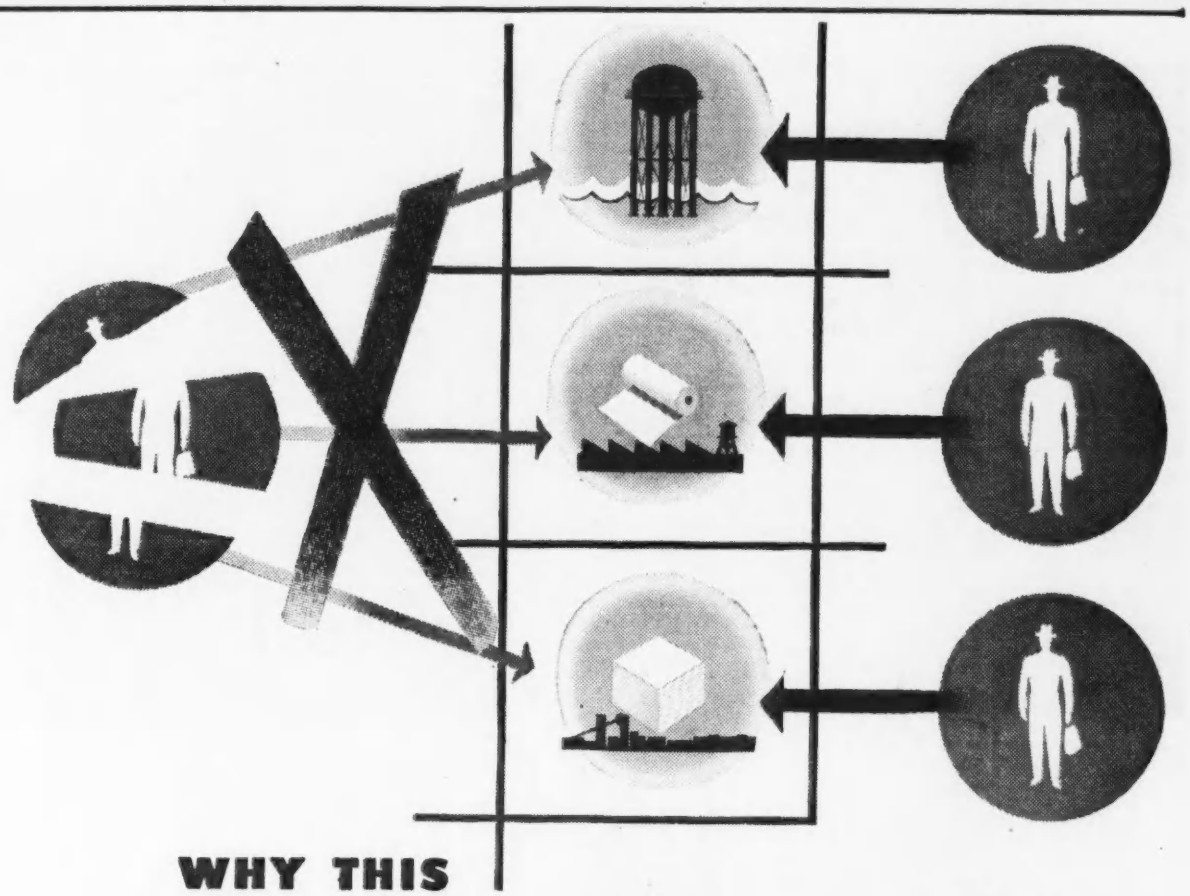
Sodium phosphates in bbls., 40c. higher than bgs.

USP (see Sodium phosphate dibasic).

Prussiate, yellow, bgs	lb.	.12½	—
Pyrophosphate, acid, bgs., c.l., works, frt. equald	100 lbs.	10.00	—
ferric, dms., 1,500 lbs., works.	lb.	.30	—
smaller lots, works	lb.	.31	—
tetrabasic, anhyd., bgs., c.l., works, frt. equald	100 lbs.	6.90	—
l.c.l., frt. equald	100 lbs.	7.40	—
Ricinoleate, tech., bbls	lb.	No stocks.	
Salicylate, USP, cns	lb.	.57	.60
Sesquicarbonate, bgs., c.l., works.	100 lbs.	1.95	—
bbls., c.l., works	100 lbs.	2.45	—
l.c.l., bgs., dlvd. zone 1	100 lbs.	3.70	4.10
zone 2	100 lbs.	3.96	4.36
zone 3	100 lbs.	4.25	4.65
zone 4	100 lbs.	4.96	5.35

Sales zones are: (1) All States E. of Miss. R. and N. of south bound of Ky. and Va.; Ala., La., and Miss., south of 31° Tex., E. of 100°; S. of 31° Fla.; also Me., N. H., and Vt., in which there are special county zones; Davenport, Ia., and St. Louis; (2) Ark. E. of 98° Ga.; Iowa (except Davenport), Minn.; Mo. (except St. Louis), Neb., E. of 98°, N. C., S. C., Tenn. and Tex. N. of 31° and E. of 100° (except Wichita Falls); also Ala., La. and Miss. No. of 31°; (3) Ark. W. of 96°, Kan., Neb., W. of 98°; N. D., Okla., S. D., Tex., W. of 100° (including Wichita Falls excluding El Paso); (4) Ariz., Colo., Idaho, Mont., Nev., N. M., Utah, Wyo., and El Paso, Tex.

Sesquisilicate, bbls., c.l., works	100 lbs.	4.15	—
l.c.l. dlvd	100 lbs.	5.40	5.65
Silicate, 40°, turb'd., dms., c.l., works	100 lbs.	1.00	—
l.c.l., works	100 lbs.	1.25	1.35
tanks, works	ton.	16.00	17.00
52° turbid., dms., c.l., works	100 lbs.	1.80	—
l.c.l., works	100 lbs.	2.05	2.15
tanks, works	ton.	32.00	—
Silicofluoride, bbls., c.l., works	lb.	.04	—
l.c.l., works	lb.	.04½	—
Stannate, dms., works, frt. alld. E.	lb.	.58	.633
Stearate, tech., bbls., works	lb.	.40	—
USP, anhyd., bbls., works	lb.	.51	.56
Sulphanilate, bbls., works	lb.	.22	—
Sulphate, NF, VII, dried, gran., dms	lb.	.20	.20½
tech., anhyd., bgs., c.l., works.	100 lbs.	2.10	—
l.c.l., works	100 lbs.	2.35	2.60
cryst. (see Glauber's salt).			
USP, cryst., gran., bbls	lb.	.15	.15½
Sulphide, flake, bbls., c.l., works, frt. equald	100 lbs.	4.50	—
l.c.l., same basis	100 lbs.	5.00	5.25
fused, bbls., c.l., works, frt. equald	100 lbs.	4.00	—
l.c.l., same basis	100 lbs.	4.50	4.75
Sulphite, anhyd., tech., powd. bbls., c.l., frt. equald	100 lbs.	2.50	2.75
l.c.l., same basis	100 lbs.	3.25	3.75
crystals, bgs., c.l., works.	100 lbs.	3.60	—
l.c.l., works	100 lbs.	4.00	—
bbls., c.l., works	100 lbs.	4.00	—
l.c.l., works	100 lbs.	4.40	—
powd., bbls., c.l., works	100 lbs.	6.50	—
l.c.l., works	100 lbs.	7.00	—
Sulphocyanide, CP (see Sodium thiocyanate).			
Sulphoricinoleate, bbls	lb.	.51	.81
Sulphydrate, flake, 70-72%, dms., c.l.	lb.	.05¾	—
l.c.l., works	lb.	.06¼	—
liquid, 45%, basis 100%, tanks, works	ton.	95.00	—
Thiocyanate, CP, dms	lb.	.55	.65
tech., dms., works	lb.	.20	—
Thiosulphate, tech. (see Sodium hyposulphite),			
USP, cryst., bbls	lb.	.10	.12
Titanate, ctns., c.l., works	lb.	.10	—
5 tons, works	lb.	.10¼	—
1 ton or less, works	lb.	.10¼	.13½
Tripolyphosphate, bgs., c.l., works.	100 lbs.	7.25	—
l.c.l.	100 lbs.	7.65	—
Tungstate, tech., kgs., works	lb.	1.20	1.25
Sodium-ammonium phosphate, bbls., works, frt. equald	lb.	.23	—
Sodium-carboxymethylcellulose—See CMC.			
Sodium-cinchophen, bots., dms., works	lb.	5.00	5.10
Sodium-formaldehyde, sulfoxylate, dlvd., dms.	lb.	.24	.24½
Sodium-sulpha drugs (see Sulpha name).			
Sodium-titanium fluoride, fib. dms., c.l., works	lb.	.16½	—
l.c.l., works	lb.	.17½	.20
Sodium-zirconyl sulphate, fiber dms., 1,000 lbs. or more, works	lb.	.28	—
less 1,000 lbs., same basis	lb.	.30	—
Solvent naphtha, coaltar, tanks, works	gal.	.25	.3233
high-flash, tanks, works	gal.	.25	.3233
petroleum, 100°F. flash, tanks, Baytown, Tex	gal.	.25	—
150°F. flash, tanks, same basis	gal.	.23	—
Sorbitol, cryst., pellets, dms., c.l., works	lb.	.30	—
ton lots, works	lb.	.33	—
solution, commercial, aqueous, dms., c.l., works	lb.	.23½	—
ton lots, works	lb.	.24¼	—
less ton lots, works	lb.	.25	—
regular, 70%, aqueous, dms., c.l., works	lb.	.16½	—
ton lots, works	lb.	.17¾	—
less ton lots, works	lb.	.18½	—
tanks, works	lb.	.15¾	—
Soybean meal, 41% bulk, Decatur.	ton.	73.00	74.00
protein, chemically isolated, 40,000 lbs., works	lb.	.18	—
20,000 lbs., works	lb.	.18¼	—
smaller lots, works	lb.	.18½	.22
mechanically refined, bgs., 40,000 lbs., works	lb.	.0575	—
20,000 lbs., works	lb.	.0590	—
smaller lots, works	lb.	.0605	—
Sparteine sulphate, cns	oz.	2.95	—
Spikenard root, bls.	lb.	.40	.45
Spruce extract, liq., reg., tanks, works	lb.	.01¾	—
powd., super, bgs., c.l., works.	lb.	.05¼	—
Squaw vine, leaves, bls	lb.	.35	.40
Squill, red, fortified, powd., bbls.	boxes	lb. 1.50	1.60
White, bls	lb.	.08	.10
powd., bbls., bxs	lb.	.14	.18
St. Ignatius beans, bgs	lb.	No stocks.	
St. John's bread, edible, bls	lb.	.17	.18
Stainless steel flake, dry, dms., works	lb.	1.50	—
paste, dms., works	lb.	1.25	—
Stannous chloride (see Tin chloride, stannous).			
Starch, corn, pearl, paper bgs., c.l.	100 lbs.	5.29	—
Chicago	100 lbs.	4.67	—
l.c.l.	100 lbs.	5.44	—
powd., paper bgs., c.l.	100 lbs.	5.40	—
Chicago	100 lbs.	4.78	—
l.c.l.	100 lbs.	5.60	—
Prices for corn starch in cotton bags, 17c. higher.			
Potato, dom., bgs., c.l.	lb.	.0580	.0613
l.c.l.	lb.	.07	.07¼
Rice, bgs	lb.	.10¼	.10¾
Sweetpotato, bgs., c.l.	lb.	No stocks.	
Wheat, bgs.	lb.	.0608	.0615
Stavesacre seed, bgs	lb.	.60	.61
Stearin, oleo (see Oleostearin).			
Stillingia root, bls.	lb.	.33	.38
Stoneroot, bls	lb.	.07½	.08
Storax, USP, cs	lb.	1.50	1.60
Stramonium leaves, bgs	lb.	.20	.25
Seed, bgs	lb.	.20	.21
Streptomycin, hospitals, vials	gram.	.80	—
wholesalers, vials	gram.	.64	—
Strontium bromide, NF, cns., dms.,	lb.	.62	—
Carbonate, 90%, bbls	lb.	.15½	.16½
Chloride, tech., bbls	lb.	.22	.24
Chromate, bgs., frt. equald	lb.	.43½	.44
Iodide, jars, 25 lbs	lb.	3.60	—
Nitrate, bbls., c.l., works	lb.	.09¼	—
l.c.l., works	lb.	.10¼	—
Oxalate, bbls., works	lb.	.42	.44
Salicylate, NF, dms	lb.	1.25	1.32
Sulphate, air-floated, 90% 325 mesh, bbls., works	ton.	58.00	—
Strontium-calcium sulphide, phosphorescent, dms., works	lb.	2.50	2.85
Strophanthin, NF, bots	oz.	39.00	—
Strophanthus seed, Kombe, bgs	lb.	2.50	3.00
Strychnine, NF, powd., cns., 100 ozs.	oz.	1.25	—
Phosphate, NF, 100 ozs	oz.	1.14	—
Sulphate, USP, powd., cns., 100 ozs	oz.	1.00	—
Styrene, monomer, tanks, works	lb.	.15	—
Styroyl acetate, bots	lb.	2.50	3.10
Sucrose octa-acetate, denat., bbls., l.c.l., works	lb.	.60	—
tech., bbls., l.c.l., works	lb.	.55	—
Sugar coloring (see Caramel coloring)			
Sugar of milk (see Milk sugar).			
Sulphabenzamide, dms., works	lb.	4.25	—
Sulphabenzamide sodium, dms., works	lb.	4.25	—
Sulphadiazin, USP, dms., works	lb.	10.25	10.75
Sulphadiazin sodium, USP, dms., works	lb.	11.25	11.75
Sulphaguanidin, USP, dms., works,	lb.	4.50	4.60
Sulphamerazin, USP, dms., works	lb.	10.25	10.75
Sulphamerazin, sodium, USP, dms., works	lb.	11.25	11.75
Sulphanilamide, USP powd., bots., works	lb.	1.30	1.43
Sulphanilamide, 20-60 mesh, 10c. higher.			
Sulphanilamidoquinoxaline, veterinary, dms	lb.	20.00	—
Sulphapyridin, NF, powd., bots., tins, works	lb.	7.00	7.30
Sulphapyridin-sodium, powd., bots., dms., works	lb.	7.50	7.80
Sulphathiazole, USP, powd., dms., works	lb.	3.50	3.63
Sulphathiazole-sodium, USP, dms., works	lb.	3.50	3.63
Sulphur, com'l, rubbermakers, bgs., c.l., works	100 lbs.	1.75	—
l.c.l., works	100 lbs.	2.10	2.45
crude, c.l., bulk, mines, contract,	long ton.	18.00	—
vessel, f.o.b. Gulf ports, export,	long ton.	22.00	—
flour, com'l, 90½%, bgs., c.l., works	100 lbs.	1.60	—
l.c.l., works	100 lbs.	1.95	2.30
precipitated, USP, bbls., kgs	lb.	.18	.20
refined, flour, light refined, USP, bgs., c.l., works	100 lbs.	3.00	—
l.c.l., works	100 lbs.	3.35	3.70
heavy, bgs., c.l., works.	100 lbs.	2.80	—
l.c.l., works	100 lbs.	3.15	3.50



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Sulphur, Refined, Flowers—Triphenylguanidine

Sulphur, refined, flowers, USP, bgs., c.l., works..100 lbs. 3.25 - —
l.c.l., works.....100 lbs. 3.60 - 3.95
Sulphur flowers in bbls., 75c. higher.
rock, bgs., c.l., works....100 lbs. 2.40 - —
l.c.l., works .....100 lbs. 2.75 - 3.10
rolls, bgs., c.l., works .100 lbs. 2.70 - —
l.c.l., works .....100 lbs. 3.05 - 3.70
rubbermakers' bgs., c.l., works, 100 lbs. 2.25 - —
l.c.l., bgs., works 100 lbs. 2.60 - 2.95
Chloride, 55-gal. dms., c.l., works, lb. .03¼- —
l.c.l., works ..... lb. .04¼- —
10-gal. dms., l.c.l., works .... lb. .08¼- —
Dioxide, liquid, com'l, cyls., works, lb. .09 - —
multi-unit cars, works.... lb. .0535- —
tanks, works ..... lb. .045 - —
refrigeration, cyls., l.c.l., dlvd. lb. .18 - —
Sumac bark, 28%, grd., bgs., ex dock..ton.48.00 -50.00
Extract, No. 1, bbls ..... lb. .10½ —
No. 2, bbls ..... lb. .09 - —
crystals, bbls. ..... lb. .40 - —
stainless, bbls. ..... lb. .14½- —
Leaf, 28% grd., bgs., ex-dock, ton.53.00 - —
Superphosphate run-of-pile, under 22% a.p.a. pulv., bulk, Baltimore unit-ton. .76 - .77
triple, 48% or more, a.p.a., pulv., bulk, Tampa, Fla unit-ton. .83 - —

Prices on 48% triple superphosphate in other states and D. C. are per unit-ton plus frt. charges from E. Tampa, Fla. Superphosphate, gran., 2c. per unit-ton higher than pulverized.

Sweet basil, bus ..... lb. 1.50 - 1.70

T

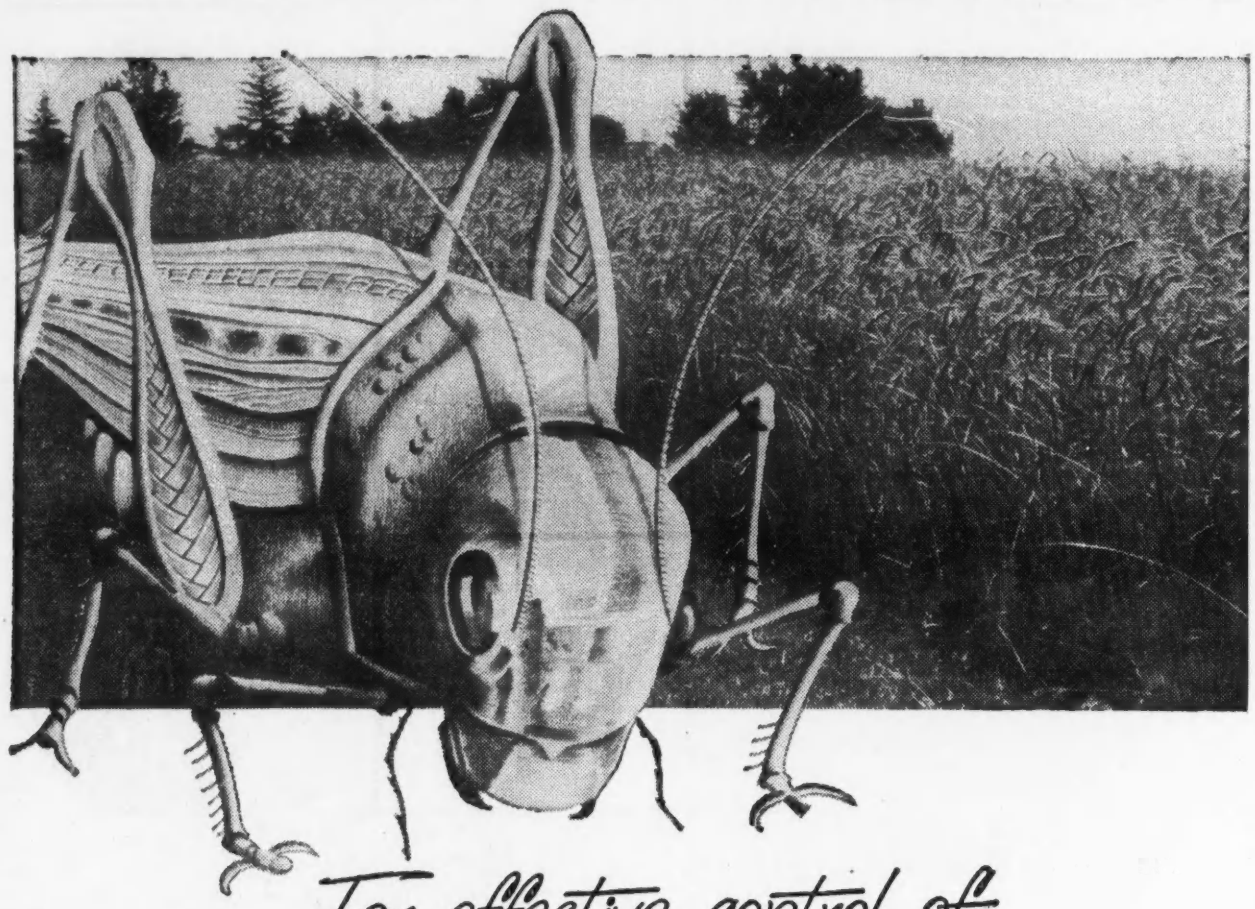
Talc, dom., ordinary, grd., Calif., bgs., c.l., works..ton.22.00 -30.00
Vermont, bgs., c.l., works ton.14.00 - —
l.c.l., works ..... ton.17.50 - —
fibrous, New York, off-color, grd., bgs., c.l., works.. ton.24.00 - —
l.c.l. ..... ton.26.50 -28.00
98.5-99.5%, 325 mesh, bgs., c.l., works..ton.23.00 -28.00
l.c.l., works.....ton.25.00 -32.00
Imp., Canada, grd., bgs., c.l. ton.35.00 -45.00
Tallow, inedible, extra, loose, dlvd. lb. .05½- —
fancy, loose, dlvd ..... lb. .05¾- —
special, loose, dlvd ..... lb. .05 - —
sulphonated, 25%, dms..... lb. .07½- .08
50%, dms ..... lb. .10 - .10½
Tamarinds, bbls ..... lb. .14 - .15
Tankage, animal, feeding, 9-11% ammon., bulk..unit-ton. 5.25 - —
Chicago .....unit-ton. 9.00 - —
fertilizer, 9% ammon., 10% b.p.l., Chicago unit-ton..No stocks.
10-11% ammon., 15% b.p.l., bulk..unit-ton. No stocks.
Tansy leaves, bls ..... lb. .24 - .30
Tapioca flour, high grade, bgs.... lb. .10 - .10¼
medium grades, bgs..... lb. .08½- .09½
low, bgs ..... lb. .07 - .07¼
Java, bgs ..... lb. No stocks.
Tar acid oil, 15-18%, dms., c.l., works, frt. equald..gal. .41 - —
l.c.l., works..... gal. .44 - —
tanks, works..... gal. .33 - —
25-28%, dms., c.l., works.... gal. .48 - —
l.c.l., works..... gal. .51 - —
tanks, works..... gal. .40 - —
Tar coal (see Coaltar).
Pine (see Pinetar).
Tara pods, bgs., c.l., ex docks U. S. ports..long ton. No prices.
powd., bgs., c.l., same basis.... long ton.225.00 Nom.
Tarragon herb, bgs. ..... lb. .45 - .50
Leaves, bgs ..... lb. .85 - .95
Tartar emetic, tech., gran., or powd., bbls., kgs..lb. .46 - —
dms. ..... lb. .47 - .51
USP, powd., bbls., dms., kgs..lb. .51 - .54
Terpin hydrate, com'l, bbls., c.l. lb. .24½- —
l.c.l. ..... lb. .25 - .25½
NF, cryst., bbls., dms..... lb. .75 - —
powd., bbls., dms..... lb. .80 - —
Terpineol, Alpha (see A).
com'l, dms., c.l., South..... lb. .13½- —
l.c.l., South ..... lb. .14 - —
tanks, South ..... lb. .13 - —
prime, dms..... lb. .35 - .60
Terpinglycol ether, dms., c.l., works, lb. .19½- —
l.c.l., works..... lb. .20 - —
tanks, works ..... lb. .19 - —
Terpinyl acetate, extra, cns., dms. lb. .60 - 1.03
prime, cns., dms..... lb. .55 - .95
Terra alba (see Gypsum).
Testerone propionate, USP, 100 gms. gm. 5.25 - —
Tetrachloroethane, dms., works..lb. .08 - .08½
Tetrachloroethylene, USP, 55-gal. dms., works..lb. .20½- .21½
smaller dms., works..... lb. .23½- .25
tech. (see Perchloroethylene).
Tetraethyl orthosilicate dms., works, lb. .70 - —
Pyrophosphate, cns., dms., works, lb. .65 - .70
Tetraethylenepentamine, dms., c.l., works..lb. .51½- —
l.c.l., works..... lb. .52 - —
tanks ..... lb. .50 - —
Tetrapotassium phosphate (see Potassium phosphate).
Tetrasodium pyrophosphate (see Sodium pyrophosphate).
Thallium sulphate, 99%, bots., dlvd. lb.15.00 -17.50
Theobromine, bots., kgs..... lb. 5.25 - —
Salicylate, fib. dms..... lb. 5.00 - 5.25
with sodium acetate, USP, fib. dms..lb. 4.00 - 4.45
Sodio-Salicylate, fib. dms..... lb. 3.15 - 3.50
Theophylline, USP, bots., kgs....lb. 6.00 - 6.15
Thiamine hydrochloride, USP, dms., 100 grams..kilo.150.00 - —
Thiocarbanilide, dms..... lb. .34 - .35
Thiodiphenylamine (see Phenothiazine).
Thiouracil, dms., works..... lb. 5.50 - 5.60
Thiourea, tech., dms., c.l., works lb. .42 - —
l.c.l., works..... lb. .44 - —
Thorium nitrate, cs., works..... lb. 3.50 - —
Threonine, dextro-laevo. 100 grams 115.00 - —
Thyme, French, bgs..... lb. .16½- .17
Spanish, bls..... lb. .09 - .09½
Thymol, USP, kgs..... lb. 3.65 - 3.75
Iodide, NF, dms..... lb. 6.80 - 6.90
Timbo root (see Cube root).
Tin chloride (stannous), anhyd., dms. lb. .88 - .89
Crystals, hydrous, bgs., bbls., works..lb. .71½- —
Metal, Bolivian ..... lb. 1.03 - —
Straits ..... lb. 1.03 - —
Oxide, bbls..... lb. 1.01 - 1.02
Sulphate, stannous, bbls., kgs., works..lb. .98 - 1.02
Tetrachloride, anhyd., dms., wks. lb. .60 - .62
Titanium dioxide, anatase, chalk-resistant, bgs., c.l., dlvd..lb. .19½- —
l.c.l., dlvd ..... lb. .20 - .20½
plain, bgs., c.l., dlvd..... lb. .19½- —
l.c.l., dlvd..... lb. .20 - .20½
rutile, natural, granular, bgs., c.l., works..lb. .05 - —
5-ton lots, works..... lb. .05¼- —
milled, bgs., c.l., works.... lb. .05¼- —
5-ton lots, works..... lb. .05½- —
nonchalking, bgs., c.l., dlvd. E. lb. .21½- —
l.c.l., dlvd. E..... lb. .22 - .22¼
Hydride, cns., works ..... lb. 7.00 - 8.00
Pigment, calcium-rutile base, bgs., c.l., dlvd..lb. .07½- .07¾
l.c.l., dlvd..... lb. .08 - .08¾

Titanium dioxide and pigment in bbls., ¼c. higher; Pac. coast, c.l., dlvd., l.c.l., ex whse. ½c. higher.

Tetrachloride, CP, 53-gal. dms..lb. .54½- .55
smaller, pkgs., works..... lb. .65 - 1.22
technical, 5-gal. dms., works..lb. .32 - —
smaller pkgs., works..... lb. .40 - 1.00
Tolu balsam, cns., dms..... lb. 2.35 - 2.80
Toluene (see Toluol).
Tolidin base (see Orthotolidin.)
Toluol, coaltar, industrial and nitration, tanks, works:—
Bethlehem, Pa..... gal. .21½- —
Birmingham, Ala..... gal. .20¼- —
Chicago district..... gal. .23½- —
Cleveland district..... gal. .23 - —
Dangerfield, Tex..... gal. .23½- —
Geneva, Utah..... gal. .19 - —
Hamilton, Ohio..... gal. .22 - —
Johnstown, Pa..... gal. .20 - —
Lackawanna, N. Y..... gal. .23 - —
Philadelphia, Pa..... gal. .24 - —
Pittsburgh district.... gal. .20 - —
Sparrow's Point, Md...gal. .21½- —
St. Louis, Mo..... gal. .25 - —
Syracuse, N. Y. ..... gal. .20½- —
Terre Haute, Ind..... gal. .24½- —
Woodward, Ala..... gal. .20¼- —
Wyandotte, Mich..... gal. .23 - —
Youngstown, Ohio..... gal. .20½- —
Petroleum, industrial, 2°, tanks, works:—
Albany, N. Y. ..... gal. .28 - —
Bayonne, N. J. .... gal. .28 - —
Baytown, Tex..... gal. .25 - —
Chicago, Ill. ..... gal. .27 - —
Detroit, Mich. ..... gal. .28 - —
Philadelphia, Pa....gal. .28 - —
Providence, R. I....gal. .28 - —
Sewall's Point, Va..gal. .25½- —
Wood River, Ill....gal. .25 - —
Tonga, 50% bark and vine, bls. ..lb. .80 - .95
Tonka beans, Angostura, cks....lb. 1.75 - 1.80
Brazilian, cs. ..... lb. .85 - .90
Surinam, cs. ..... lb. .85 - .90
Toxaphene, dms., works, c.l.....lb. .24 - —
truckloads, works..... lb. .24 - —
ton to truckloads, works..... lb. .27 - —
less than tons, works..... lb. .30 - —
Totaquine, USP, 100-oz. lots..... oz. .52 - —
Triacetin, dms., works..... lb. .38½- .43
Tributyl citrate, dms. ..... lb. .41 - .43
smaller containers ..... lb. .46 - .52
Phosphate, dms., c.l., frt. alld..lb. .56½- —
l.c.l. ..... lb. .57½- —
smaller containers ..... lb. .71 - —
Tributylamine, dms., c.l., works..lb. .78 - —
l.c.l., works ..... lb. .81 - —
Trichlorbenzene, dms., c.l., works, frt. alld. or equald..lb. .10 - —
l.c.l. ..... lb. .11 - —
tanks ..... lb. .08½- —
Trichloroethane, dms., c.l., works lb. .12 - —
l.c.l., works ..... lb. .13 - —
tanks, works ..... lb. .11 - —
Trichloroethylene, tanks, c.l., frt. alld., zone 1..lb. .10½- —
Zone 2 ..... lb. .11 - —
Zone 3 ..... lb. .11½- —
Zone 4 ..... lb. .11½- —

Trichloroethylene, dm., c.l., prices ½c. higher, l.c.l. 1¼c. higher, Zones are—(1) Conn., Del., Ill., Ind., Ia., Ky., Me., Md., Mass., Mich., Minn., Mo., N. J., N. H., N. Y., N. C., Ohio, Pa., R. I., Tenn., Vt., Va., W. Va., Wis., Omaha, K. C., Kan.; (2) Ala., Ark., Fla., Ga., Kan., La., Miss., Neb., N. D., Okla., S. C., S. D.; (3) Col., Mont., (E) N. M., Tex., Wyo.; (4) Ariz., Cal., Idaho, Mont. (W), Nev., Ore., Utah, Wash.

Tricresyl phosphate, coaltar, dms., c.l., dlvd..lb. .38 - —
l.c.l., dlvd. ..... lb. .38½- —
tanks, dlvd. ..... lb. .37 - —
petroleum, dms., c.l., dlvd..lb. .38 - —
l.c.l., dlvd..... lb. .38½- —
tanks, dlvd..... lb. .36½- .37
Triethanolamine, dms., c.l., frt. alld. E..lb. .23 - —
l.c.l., same basis..... lb. .24 - —
tanks, same basis..... lb. .21½- —
Triethyl citrate, dms..... lb. .34 - .36
smaller containers..... lb. .39 - .45
Phosphate, dms., works, c.l....lb. .38 - —
dms., l.c.l., same basis...lb. .39 - —
tanks, same basis..... lb. .37 - —
Triethyleneglycol, dms., c.l., frt. alld. E..lb. .20½- —
l.c.l., same basis..... lb. .21½- —
tanks, same basis..... lb. .19 - —
Triethylenetetramine, dms., c.l. works..lb. .51½- —
l.c.l., works ..... lb. .52 - —
tanks ..... lb. .50 - —
Trimethylamine, 25%-40%, dms., c.l., works, basis 100%..lb. .38 - —
l.c.l., works, basis 100%...lb. .38½- .39
tanks, works, basis 100%....lb. .33 - —
Tripentaerythritol, bgs., l.c.l., works. lb. .36 - —
Triphenyl phosphate, bbls., c.l., frt. equald..lb. .31 - —
l.c.l., frt. equald ..... lb. .32 - —
Triphenylguanidine, bbls., works lb. .90 - —



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Tripoli, air-floated, bgs., c.l., works. lb. .0175- —
double-grd., bgs., c.l., works....lb. .016 - —
single-grd., bgs., c.l., works....lb. .015 - —
Trisodium fluoroacetate (see sodium fluoroacetate tribasic).
Trisodium phosphate (see Sodium phosphate, tribasic).
Tryptophane, dextro-laevo, fib. ctns., works..kilo.207.00 -242.00
Tuba root (see Cube root).
Tungsten metal, powd., 99.8%, dms. works lb. 4.75 - —
Oxide, kgs., works ....lb. 2.85 - —
Turmeric root, Alleppey, bls....lb. .35 Nom.
Haitian, bgs....lb. .12 - .13
Jamaica, bgs....lb. .14 - .15
Madras, bgs....lb. .29 - .30
Turpentine, gum (see Naval Stores Protective Coatings market).
Sulphate, ret. dms., East....gal. .48 - —
Wood dest. dist., dms., incl., c.l., works, South gal. .40 - .53
l.c.l., same basis ...gal. .41 - .55
N. Y. whse ...gal. .55 - —
steam-dist., dms., incl., c.l., works gal. .53 - —
l.c.l., ex whse., NYC...gal. .64 - —
tanks, works....gal. .32 - —
Tyrothricin, bots.,....gram. 1.15 - 1.25

U

Urethane, USP, dms....lb. 1.75 - —
Unicorn root, false (see Helonias root).
True (see Aletris root).
Uranium oxide, black, bgs....lb. 2.55 - —
yellow, kgs....lb. 1.65 - —
Urea, dom., 46% N, bgs., c.l., wks. lb. .04½- —
l.c.l., works ....lb. .05 - —
Fertilizer compound, 42% N, bulk, c.l., 30 tons, frt. alld. Kan., Neb., N. Dak., Okla., S. Dak., Tex. and east..ton.94.00 - —
46% N, bulk, c.l., 40 tons, frt. alld. Colo., Mont., Wyo., and west..ton.103.00 - —
paper bgs., c.l., 30 tons, frt. alld., Kan., Neb., N. Dak., Okla., S. Dak., Tex., and east....ton.98.00 - —
40 tons, frt. alld. Colo., Mont., Wyo., and west.ton.107.00 - —
Urea-ammonia liquor, A and B grades, N basis, Belle, W. Va. ..ton.125.00 - —
C and D grades, same basis. ton.123.50 - —
Uva ursi leaves, bls.... ....lb. .11 - .12

V

Valerian root, Belgian, NF, bls...lb. .37 - .42
Indian, bls. ....lb. .32 - .34
Valine, dextro-laevo, dms., works.lb.22.50 -27.50
Valonia beards, bgs., ex dock..ton. No stocks.
Cups, bgs., ex dock....ton.90.00 Nom.
Extract, powd., bgs., ex dock, duty extra lb. .14½ Nom.
Vanadium pentoxide, CP, bgs., cns., works..lb. 7.00 - —
tech., dms., works....lb. 1.00 - 1.06
Vanilla beans, Bourbon, tins....lb. 3.00 - 3.75
Mexican, cuts, tins....lb. 3.50 - 3.75
whole, tins....lb. 3.85 - 4.50
Vanillin, ex eugenol, tins, 25 lbs. lb. 4.00 - —
smaller lots ....lb. 4.05 - —
ex guaicol, tins, 25 lbs....lb. 3.00 - —
smaller lots....lb. 3.05 - 3.15
ex lignin, tins, 25-lb. lots.. ... lb. 3.00 - —
smaller lots, tins....lb. 3.05 - 3.15
Vinyl acetate, 55-gal. dms., works lb. .16½- .17¼
5-gal. cns., works....lb. .30 - —
tanks, works....lb. .15 - —
Trichloride (see Trichloroethane)
Ether (see Ether, divinyl).
Vinylpyridin, ret. dms., works lb. 1.50 - —
Viosterol, bots., 10 billion USP units. mill. units. .027 - —
1 billion USP units. mill. units. .03 - —
less than 1 billion USP units. mill. units. .033 - —
Vitamin A, natural, acetate, bots., cns., dms., lots of 2,500 million units or more, 200,000 to 400,000 A units per gm. 1,000,000 units. .40 - —
400,000 to 750,00 A units per gm., same basis 1,000,000 units. .42 - —
750,000 to 1,000,000 A units per gm., same basis 1,000,000 units. .45 - —
A, natural, alcohol, bots., cns., dms., lots of 2,500 million units or more, 200,000 to 400,000 A units per gm ..... 1,000,000 units. .39 - —
400,000 to 750,000 A units per gm., same basis 1,000,000 units. .41 - —
A, natural, alcohol, bots., cns., dms., lots of 750,000 to 1,000,000 A units per gm., same basis 1,000,000 units. .44 - —
A, natural, concentrates (see Oil, fishliver).
A, synthetic, acetate, 1,000,000 A units per gm 1,000,000 units. .43 - —
A, synthetic, palmitate, 800,000 A units per gm 1,000,000 units. .50 - —
Vitamins, A concentrate (see Oil, fishliver).
B_1 (see Thiamine hydrochloride).
B_2 (see Riboflavin).
B complex, natural (see Rice bran and Yeast).
Vitamin B_3 (see Pyridoxin).
C (see Acid, ascorbic).
D (see Oils, codliver and fishliver, Calciferol, and Viosterol).
D_2 (See Calciferol).
E (see Alphatocopherol and Oil, wheatgerm).
G (see Riboflavin).
P-F (see Acid, nicotinic, and Nicotinamide).
H (see Biotin).
Violet, methyl toner (see Blue, methylviolet toner).
V.M.P. naphtha (see Petroleum naphtha).
Vitamin A (see Oils, codliver, fishliver).

W

Wahoo root bark, bls....lb. 1.75 - 1.80
Tree bark, bls....lb. .55 - .75
Wattle bark, fair average, or E. Afr., bgs., ex dock..ton.83.00 - —
merchantable, bgs., ex dock..ton.80.00 - —
extract, liquid, 35% tannin, bbls., works lb. .08½- —
tanks, works....lb. .08 - —
solid, E. Afr., 61% tannin, ex dock, duty extra lb. .09¼- .09¼
S. Afr., 62% tannin, ex dock, duty extra lb. .09¼- .09¼
Wax, amorphous (see Wax, microcrystalline).
Bayberry, bgs....lb. No stocks.
Bees, bleached, USP, white, bricks, cs....lb. .64 - .65
slabs, bgs....lb. .63 - .64
crude, African, bgs....lb. .45 - .47
western hemisphere, bgs.lb. .48 - .49
refined, yellow, bricks, cs....lb. .56 - .57
slabs, bgs....lb. .55 - .56
Candelilla, crude....lb. .43 - .46
refined, bgs....lb. .48 - .50
Powdered candelilla, 20 mesh, 5c. per lb extra; 80 mesh, 5½c.; 100-200 mesh, 6c.

Wax, carnauba, chalky, No. 3, bgs., ton lots..lb. .76 - .77
North Country, No. 2, ton lots.. lb. .82 - .84
No. 3, crude, bgs., ton lots...lb. .81 - .83
refined, bgs., ton lots....lb. .85 - .86
yellow, No. 1, bgs., ton lots..lb. 1.08 - 1.10
No. 2....lb. 1.06 - 1.08
Powdered carnauba price differentials same as powdered candelilla.
Ceresin, dms., 132°-136° m.p., bgs. lb. .12½- .13
138°-140° m.p., bgs....lb. .14½- .15
150°-160° m.p., bgs....lb. .17 - .17½
Japan, bgs....lb. .75 - .77
Microcrystalline, 170°-175° m.p., ASTM, amber, ctns., 20,000 lbs., group 3, works lb. .14 - —
Less than 20,000 lbs., same basis lb. .15 - —
Black, ctns., 20,000 lbs., same basis lb. .12½- —
Less than 20,000 lbs., same basis lb. .13½- —
White, ctns., 20,000 lbs., same basis lb. .25 - —
Less than 20,000 lbs., same basis lb. .26 - —
180°-185° m.p., ASTM, amber, ctns., 20,000 lbs., same basis lb. .16 - —
Less than 20,000 lbs., same basis lb. .17 - —
Black, ctns., 20,000 lbs., same basis lb. .14½- —
Less than 20,000 lbs., same basis lb. .15½- —
White, ctns., 20,000 lbs., same basis lb. .27 - —
Less than 20,000 lbs., same basis..lb. .28 - —
Wax, microcrystalline, white, 190°-195° m.p., ASTM, amber, ctns., 20,000 lbs., same basis lb. .20½- —
Less than 20,000 lbs., same basis lb. .21½- —
Black, ctns., 20,000 lbs., same basis lb. .19 - —
Less than 20,000 lbs., same basis lb. .20 - —
White, ctns., 20,000 lbs., same basis lb. .33½- —
Less than 20,000 lbs., same basis lb. .34½- —
Montan, crude, dom., bgs....lb. .31 - .32
Bohemian, bgs....lb. .23 - .23½
German, bgs....lb. .27 - .28
Ouricury, refined, bgs., ton lots, lb. .74 - .75
Ozokerite, fabricated, black, 180-190 m.p., bgs. lb. .31 - —
182-183 m.p., bgs....lb. .29 - —
171-172 m.p., bgs....lb. .27 - —
white, 178-183 m.p., bgs...lb. .26 - .27
170-172 m.p., bgs....lb. .22 - .23
yellow, 180-190 m.p., bgs...lb. .25 - .26
182-183 m.p., bgs....lb. .20 - .21
178-183 m.p., bgs....lb. .21 - .21½
170-172 m.p., bgs....lb. .18 - .19
Spermaceti, blocks, cs....lb. .32 - .33
cake, cs....lb. .33 - .34
White lead (see Lead, white).
White pine bark, rossed, bls....lb. .16 - .20
White precipitate, USP, powd., dms., 50 lbs lb. 2.00 - —
Whiting, limestone, dry-grd., 325 mesh, bgs., 40 tons St. Louis, works ton.11.00 - —
40 tons, N. Y. whse....ton.19.00 - —
smaller lots, St. Louis, works ton.13.50 - —

Whiting, limestone, wet-grd., air-floated, 99%, 325 mesh, bgs., c.l. ton.14.50 -27.50
200 mesh, bgs., c.l. ton. No prices
90% 200 mesh, bgs., c.l. ton No prices.
water-floated, extra gilders, bgs., c.l. ton.14.50 - —
gilders, bgs., c.l....ton. No prices.
putty grade, bgs., c.l. ton.13.00 - —
surface treated, bgs., c.l., Ohio works ton.30.00 - —
Paris white, bgs., c.l. ....ton.25.00 -31.00
l.c.l. ....ton.25.00 -29.00
Precipitated, bgs., c.l. ....ton.18.00 -20.00
l.c.l. ....ton.22.00 -25.00
Wild cherry bark, thick, natural, bls. lb. .06 - .07
rossed, bls....lb. No prices.
thin, natural, bls....lb. .15 - .16
rossed, bls....lb. .17 - .18
Wild indigo root, bls....lb. .30 - .31
Wild yam root, bls....lb. .16 - .17
Witch hazel leaves, bls....lb. .14 - .16
Woodflour, 40 mesh, bulk, c.l., works, East ton.32.00 - —
l.c.l., same basis....ton.40.00 - —
60 mesh, bulk, c.l., same basis. ton.37.00 - —
l.c.l., same basis....ton.45.00 - —
80-100 mesh, bulk, c.l., same basis. ton.40.00 -45.00
l.c.l., same basis....ton.50.00 -55.00
Woodflour in bgs. extra, returnable.
Woolfat (see Lanolin).
Wormseed, American, bgs....lb. .15 - .16
Levant, bgs....lb. 4.15 - 4.25
Wormwood, leaves, bls....lb. .40 - .45

—Continued on page 38

The Filtrol Corporation
announces

ITS TWO NEW SUPERIOR
ACTIVATED DECOLORIZING ADSORBENTS
FOR THE VEGETABLE AND ANIMAL OIL INDUSTRY

neutrol "e"

PROPERTIES

Physical State	Light gray powder
Mesh (T-200) (%)	93-95
pH (Approx.)*	4
Keeping Quality in Storage	Stable
Effect on F.F.A. Development	Negligible – not over 0.05% rise under normal contacting conditions.
Effect on Press Cloths	Negligible
Decolorizing Power	Approx. 37% greater than Special Filtrol
*on slurry	

APPLICATIONS

Babassu Oil	Oleo Stock
Castor Oil	Olive Oil
Coco Butter	Palm Kernel Oil
Coconut Oil	Peanut Oil
Corn Oil	Rapeseed Oil
Cottonseed Oil	Rendered Pork Fat
Fish Liver Oil	Sardine Oil
Herring Oil	Sesame Oil
Lard	Soybean Oil
Menhaden Oil	Sunflower Oil
Oleo Oil	Used Frying Fat
Oleo Stearine	Whale Oil

SPECIFIC ADVANTAGES

High Decolorizing Power, resulting in savings of:
Oil retained in press cake
Labor-press handling, trucking, etc.
Storage space
Freight
Cake disposal
Press requirements
Low free fatty acid rise
Negligible deterioration of filter press cloths

neutrol "i"

PROPERTIES

Physical State	Light gray powder
Mesh (T-200) (%)	99.0% (Min.)
pH (Approx.)*	3
Keeping Quality in Storage	Stable
Effect on F. F. A. Development	Slight – approx. 0.20% rise under normal contacting conditions
Effect on Press Cloths	Slight
Decolorizing Power	Approx. 42% greater than Special Filtrol
*on slurry	

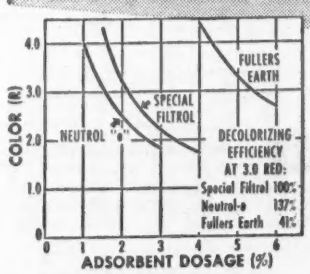
APPLICATIONS

Beeswax	Palm Oil
Candelilla Wax	Perilla Oil
Carnauba Wax	Red Oil
Grease	Stearic Acid
Lanolin	Tall Oil
Lard Oil (Inedible)	Tallow
Linseed Oil	Tallow Oil
Oiticica Oil	Tung Oil

(Also on Neutrol-E applications where minimum free fatty acid rise is unnecessary)

SPECIFIC ADVANTAGES

High Decolorizing power, resulting in savings of:
Oil retained in press cake
Labor – press handling, trucking, etc.
Storage Space
Freight
Cake Disposal
Press Requirements



TYPICAL DECOLORIZING EFFICIENCY OF NEUTROL-E ON SOYBEAN OIL

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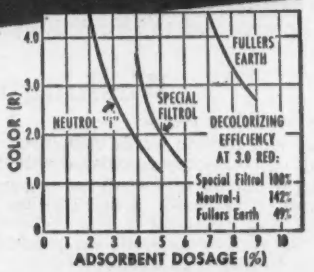

TYPICAL DECOLORIZING EFFICIENCY OF NEUTROL-I ON TALLOW

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Volume 156 July 11, 1949 Number 2

Government As a Buyer

Now that the Federal government has set up a housekeeping unit under the new property and services act, there are some in Congress and some in the streets of the country who feel that there is no sense in being alarmed over the fact that the government went into the red to the extent of $1,800,000,000 in the past fiscal year. The President's order that all Federal agencies tighten up on their spending doubtless has contributed something to that view. But, it must be recognized that the Hoover commission estimated that the savings possible under its housekeeping recommendation would be but $350,000,000 a year. So, it would take five years to recoup last year's loss—if the savings ran to full possibility, which is very doubtful.

There is no doubt that governmental agencies could save substantial sums if they operated their purchasing on a businesslike system. It must be recognized, however, that such procedure would be almost impossible under some of the circumstances which control the purchasing of some of them at certain times. It is necessary, for instance, that the military agencies have at least a five-turns inventory of replacement supplies in time of action. And it is inevitable that a large portion of such necessary inventories will be outmoded as improvements—or even changes—are made in equipment; although it is true that much of the changing could be done away with to advantage under the proper sort of supervision.

However, it is not logical that those who are most vociferous with regard to the savings that can be made in governmental spending devote most of their efforts to making reductions in military and foreign-aid areas. The reason, of course, is that cuts there will have but little, if any, application to the contents of pork barrels for constituents. The disturbing aspect is that world conditions do not justify cuts in expenditures for national defense or for world recovery.

There are many areas in which equally substantial savings can be made—and no deserving beneficiary be the loser. Even in the limited area of governmental purchasing to which the new housekeeping plan applies much more than the Hoover commission's estimated saving could be effected if proper use of adequate inventory records were made; if supplies were properly stored and distributed, and if government purchasing were reduced to a simple transaction between buyer and seller. Despite all the pious declarations that the services of "five-percenters" or other intermediaries are not necessary; despite the earnest avowals that such middlemen are helpful to "small business," it is very difficult to do business with the government face-to-face. And the pronouncements of surveyors that "small business" gets but little of the trade with government just does not jibe with the experience of many who could furnish the goods at less cost.

Not until government agencies, one and all, adopt the businesslike system of making annual contracts direct with first-hand suppliers can the savings in its purchasing be expected to be relatively substantial. An enterprise of the magnitude of the Federal government certainly is not being business-like when, week after week, it asks in maybe a half-dozen agencies for bids on the same goods. Government is big business; it should operate as such.

Government Bearing Gifts

Its sponsors call it a quarantine on unemployment. But, the $15,000,000,000 economic expansion idea offered by three Democratic senators could be the biggest, tightest quarantine on private enterprise that any nationalization plan could apply. The presentation of this big idea by its sponsors was filled with assurances that it purposed no governmental operation of industrial plants, no other interference by government in private enterprise. But, because it would set up a system of governmental financial assistance for productive expansion "where necessary", it would give government the primary role in a scheme of economic planning, and the inevitable consequence would be that government, as a creditor, would exercise an emphatic right to demand that debtor management perform according to orders.

The economic expansion plan would include a very interesting scheme of cooperative planning by a board composed of representatives of manufacturing, agriculture,—and, at least by implication, distribution—labor, and consumers. That board would study economic conditions—by what system and in what manner has not yet been disclosed—and would make recommendations for such improvements as it deemed necessary or desirable. Apparently the recommending would be directed largely, if not wholly, to the providing of governmental assistance.

From the information as yet available, the inclusion of distribution in the scheme of things can only be inferred. As the sponsors tell it, the plan would be mainly, if not wholly, directed to the expansion of production, especially in "underdeveloped areas". With the majority of industries now compelled to curtail production and few, if any, of them operating at capacity, the ancient idea that more and still more production is the cure for all economic ills just doesn't make sense. That idea, in truth, was proved fallacious by practical economists time and again over the past century. And the blame for economic collapses has repeatedly been laid upon overproduction. The fault always has been more one of underconsumption. And it is a fundamental economic truth that the aggregate earnings of all those engaged in productive operations cannot pay for the products of those operations.

Perhaps it is in unmentioned recognition of that inescapable fact that the economic expansion idea includes a scheme of public works. It is described as a flexible scheme—"program" is the sponsors' designation—which could be turned on or off as conditions of unemployment dictated. In the light of all experience with such schemes, it is greatly to be doubted that what could be done would be.

The increasing of unemployment through lay-offs in manufacturing plants is a regrettable reflection on the efficiency of private enterprise. The circumstances are not as they will be proclaimed by the advocates of nationalization. Manufacturing employment was inflated in the drive to catch up with the consequences of the wartime lag. The ranks of odd-job workers were thinned. It is unfortunate that the reverse flow has not been efficiently handled. There are millions of odd jobs crying for the doing—but not at $1, $1.50, or more an hour. Is it inevitable that the answer must be a government program of public works and a financial pool for experimentation in unnecessary, undesirable expansion of production? It will be much better if all elements of production, distribution, and consumption will get together, on their own, without benefit of governmental planners, and see that the necessary job is done.

Washington Talks It Over

—*Continued from page 5*

lands" and similar words connoting, indicating or commonly associated with Scotland, the bureau says, shall not (except for the use of the word "Scotch" in the type designation "blended Scotch type whiskey") be used to designate any product not wholly produced in Scotland.

War Surpluses Liquidation

One agency set up to liquidate some of the war left-overs has finally accomplished its mission—not only liquidating the left-overs but also itself. It is the Office of Foreign Liquidation Commissioner in the Department of State, which had the job of getting rid of the surplus war materials and equipment abroad.

The department proudly announced that the commissioner completed the job on June 30, six months in advance of the expiration of the surplus property act of 1944. It got rid of slightly in excess of $10,000,000,000 of war-generated surplus property for a return to the United States of approximately $2,000,000,000—or about twenty cents on the dollar which, on the whole, can't be considered too great a loss.

As to the remaining job of liquidating the war left-overs in this country, that has now been turned over to the new General Services Administration, which also has the task of liquidating the War Assets Administration, which was set up to liquidate the surpluses.

Latin American Farm Census

Plans for the first real census of agriculture in Latin America are now being drawn up at a conference going on at Bogota, Colombia, of all the Latin American governments members of the Food and Agriculture Organization. Participants are reviewing the proposed lists of items to be included in the census and, in the interest of uniformity, are seeking agreements on definitions to be used.

The census, which is to take place in 1950, is part of the world census of agriculture being sponsored by FAO. The information sought will be of indispensable assistance in national and international planning for increased agricultural production and improved distribution of food and other essential products of agriculture.

The main items in the census will include (1) agricultural lands and their use; (2) forms of land tenure; (3) the number of farm livestock and poultry; (4) the use of farm implements and machinery and mechanical power. In addition, many governments will collect information on the total quantity of the harvest of each important crop. In some countries, the census will include also the collection of information on such items as farm incomes; expenditures for seed, fertilizer, pesticides, wages, and other operating costs.

Two-Way Marshall Planning

ECA Administrator Paul G. Hoffman would like to see a number of other cities follow the leadership of Philadelphia businessmen to acquaint Marshall plan countries with the products we have to offer and the products which the Marshall plan countries can produce that might find a market in this country.

Under the sponsorship of the Philadelphia Chamber of Commerce, Frank G. Binswanger, real estate man of that city is leaving on a two-month tour of the major cities in Europe as Philadelphia's "Good Will Ambassador" to try to establish a definite trade relationship with Europe. He will attempt to learn from the various business interests in Europe just what they have to sell to Philadelphians and what products that city can supply to foreign purchasers.

Mr. Hoffman commented on the tour that "it is selfhelp of this order which will help promote the sale of products abroad, and which exemplifies the ingenuity and merchandising methods of American businessmen. By direct contact with prospective purchasers abroad, much can be done to stimulate trade through normal commercial channels as well as permit wider participation in ECA-financed buying by European nations."

Trees Are Told About

The Department of Agriculture is devoting its entire issue of this year's Yearbook of Agriculture to the subject of trees and forests. The 960-page volume will be ready for distribution in about two weeks.

There are 128 articles by 161 contributors, a sixteen-page section of color photographs, and many other illustrations, whose primary purpose is to illustrate ways of planting and caring for trees and how to identify the leading forest trees and ornamentals. The articles are designed to be practical, down-to-earth, nontechnical sources of information for farmers, suburban dwellers, students, scientists, foresters, teachers, and others.

In a foreword to the 1949 yearbook, Secretary Brannan indicates its scope and purpose:—The book underscores the importance of forests to our national and individual prosperity, security, and happiness. Truly, our woods and forests are one, in our lives, with soil, water, animals and food. Soil and water conservation, flood control, permanent abundance, prosperity on the land—the very goals we work toward—involve the proper use of forests."

Postage Stamp Paradox

It would seem that it is about time that someone called a halt, or at least a curtailment, of the issuance of a new postage stamp every couple of weeks. The situation is beginning to border on the ridiculous, and certainly amounts to a waste of taxpayer funds in many instances.

Last year, for instance, a new stamp was issued at the rate of one every eleven or twelve days. Some of them were quite proper, some were tolerable, but many were trivial. They ranged all the way from honoring Abraham Lincoln to celebrating 100 years of progress of women and the centennial of the American poultry industry, which led to a big controversy over what breed of hen should be pictured.

The trouble lies not with the Post Office but with Congress, which directs the issuance of the stamps. The Post Office regards them as a nuisance and so confusing that in some cases letters get by with Christmas seals and other stickers. There are at least a dozen or more bills now pending in Congress to butter up some special group through the issuance of a special stamp. It's about time they were stopped.

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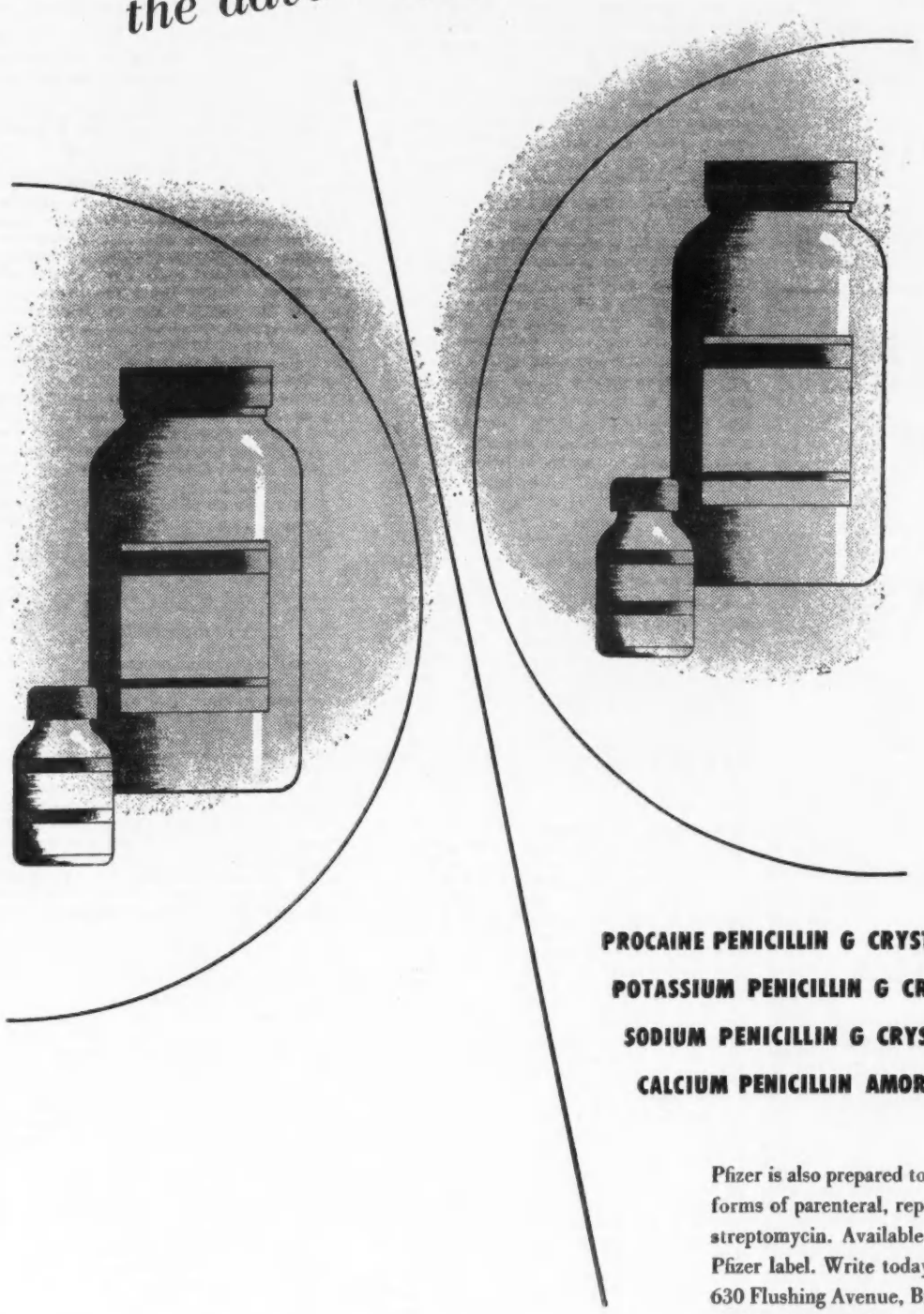

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Heavy Chemicals

Copper metal price advanced last week under an increased buying movement. The upward revision was the first break in the decline which started late in March. Salt cake prices were reduced with demand slow and stocks increasing. The continued absence of buying interest from the kraft paper mills has relieved this market of its chief supporting influence. The copper based chemicals now have a stronger background although no new price changes have been announced. Sales of tin metal by the Reconstruction Finance Corporation at the same price that prevailed over the twelve months period ending June 30 gave the impression that this figure would remain at least through July. The movement of tin based chemicals has continued exceedingly quiet so far this month.

General activity in heavy chemicals was slow last week with many consuming plants closed down for two or three weeks covering the vacation period. The bright spots were limited to specialties including chlorine and the chlorates. The match factories which have shown little interest in potassium chlorate since the beginning of the year have entered the market with the intention of replenishing dried out inventories. Sodium chlorate commanded more attention both for agriculture and industry and production has been sold well through August. Chlorine found a steady Summer demand which crowded production to some extent. In most other directions there were plenty of supplies and a scarcity of buyers. In some quarters it was stated that the soapers were showing a little more interest but consumers are not inclined to purchase in excess of actual wants and appear satisfied to take a chance on future requirements. The prolonged drought has seriously restricted the demand for copper sulphate and zinc sulphate.

Paper production based on a percentage of six-day capacity was 77.8 percent for the week ending July 2, according to the American Pulp and Paper Association. This compared with 83.9 in the preceding week, and 91.3 for the corresponding week in 1948.

Production figures appearing below unless otherwise specified are from the Census Bureau and the Chemical Division of the Tariff Commission.

Ammonia, Anhydrous—Price range for the fertilizer grade has narrowed down to $74.00 to $75.00 per ton with demand showing the usual quieting down at the beginning of the new season. The above range is for tankcars f.o.b. the works. The refrigeration grade is firm at $77.50 for tankcars f.o.b. the works. Prices in cylinders range from 17c. to 21½c. per pound, according to location.

Ammonia Aqua—Producers are moving tankcars at $80.00 to $81.00 per ton works anhydrous basis. Drums 29.4 degrees are priced at $3.10 per 100 pounds in carlots and at $3.50 for l.c.l. at the works.

Ammonia Liquor—Output in May was placed at 4,249,899 pounds by the Bureau of Mines. Production for the first five months showed a total of 20,927,883 pounds. April output registered 4,263,209 pounds and in May, 1948, production was 4,285,600 pounds. Total production for the first five months in 1948 was 20,066,500 pounds. May sales amounted to 2,956,922 pounds, compared with 3,111,966 in the preceding month and 3,971,500 in May of 1948. Total sales for the first five months of 1949 were 15,486,033 pounds, compared with 19,023,800 for the corresponding period in 1948. Stocks on May 31 were 1,274,999 pounds, compared with 1,056,611 on April 30 and 1,286,801 on May 31, 1948.

Ammoniac, Sal—Trading has continued relatively quiet in white granular with sales averaging considerably below those at this time a year ago. The dry-battery trade is showing little interest at present and are believed to have inventories sufficient to meet requirements for a while. The inquiry from the leather and other consuming industries has also slowed down appreciably.

Carbon Bisulphide—Output in April was lower than for any of the first five months in 1949. The total registered 26,753,622 pounds, compared with 31,832,327 in March and a high of 36,786,754 pounds recorded in January.

Carbon Tetrachloride — Another new monthly low production for 1949 was recorded in April with a total of 14,650,507 pounds. March output of 19,742,594 pounds was the highest for the first five months. Current stocks have continued ample to meet requirements promptly.

Chlorine—Supply situation in this area was not free last week with some producers a few days behind on shipments. The exceedingly hot weather has increased the demand for use in swimming pools and for potable water and current stocks are not more than even with demand.

Copper Sulphate—Market conditions have not changed materially during the past week. Maine has taken some stock because the drought has not been as severe in Aroostook county as in other sections. Some sales for up-state New York were also noted where rain has relieved the situation but in other eastern areas, particularly Long Island, the drought damage to crops is serious. Industrial demand has remained off because many consuming plants are closed for the vacation period. Export demand is definitely slow. The market's background has been strengthed by an advance in copper metal.

Defluorinated Phosphate Rock—Buying interest was described as fair with June showing a satisfactory amount of tonnage moved to the feed industry. The prolonged drought and the drying up of pasture lands has probably stimulated demand. Stocks have remained adequate to meet requirements.

Nickel Sulphate—Plating demand did not improve to any appreciable extent last week and neither did the inquiry from the vegetable oil processors. There is no apparent shortage of stocks at present, although one of the producers is entirely sold through this month.

Potash, Caustic—Production has been cutback in an effort to keep the market in balance but there is no shortage of either the dry or liquid forms at the present time. It was stated that demand is spotty and not of a character to tighten the supply situation.

Potassium Carbonate—Demand from the glass specialty trade was not as active as noted a month ago. Here also production has been cutback while stocks for immediate or prompt shipments have remained available for all grades.

Potassium Chlorate—Only potash chemical that has shown a decided improvement in demand. Match factories have apparently allowed their inventories to run low and are bent on building up stocks. The match factories were practically out of the market since January 1. Buying interest in perchlorate has relaxed.

Salt—Canvass of the Bureau of Mines, just completed, shows that another new production record in the salt industry was reached in 1948. Production totaled 16,403,293 short tons valued at $54,331,782, to which 13 states and Puerto Rico contributed. This is an increase of 2 percent in volume and 4 percent in value. Production in 1948 mounted in all three classes—Evaporated salt increased 2 percent, rock salt 2 percent, and brine 1 percent, compared with 1947 output. Exports of salt attained an unprecedented high record, at 368,921 tons valued at $5,672,578.

Salt Cake—Priced lower at $22 to $24 per ton for bulk, delivered. Demand has slowed down with stocks increasing. Production of commercial in April was lower at 48,254 tons. March output was 52,069 tons and in April last year 54,986 tons were made.

Soda Ash—No shortage of stocks for immediate or prompt shipments at present. Demand is considerably off compared with a year ago. Production is also down and more in line with the current extent of consuming demand.

Soda, Caustic—Stocks have remained available for prompt shipment for home and export with buyers showing no unusual attention. For some reason, probably the heat, the production figures by the lime-soda process for April were

For Late Market Developments, See Page 4

Market Trends

Prices Advanced
Copper, electrolytic, 1c. per lb.

Prices Reduced
Salt cake, commercial, $2 per ton.

Comparative Price Indexes
(100=August 1, 1914)

General Chemicals

Last week	Prev. week	Last month	Last year
222.4	222.4	222.4	213.7

Acids

Last week	Prev. week	Last month	Last year
122.0	122.0	122.0	122.1

(For Current Prices see Page 9)

printed the same as electrolytic in our previous report. Production by the lime-soda process in April was 46,917 tons of liquid, including 15,810 tons of solid. In March the output was 53,965 tons of liquid including 18,232 tons of solid and in April, 1948, production was 62,298 tons of liquid, including 19,013 tons of solid.

Sodium Chlorate—Miscellaneous buying interest has continued well sustained for this chemical and it was stated that production has been sold heavily through August. One of the few chemicals where sales compare favorably with a year ago.

Sodium Nitrite—Meat packers have taken full seasonal requirements of this chemical. It was stated that June sales to the meat industry compare favorably with a year ago. Demand from other consuming industries is down, particularly from the textile mills. Stocks not excessive but meeting requirements without difficulty, while prices have remained steady.

Sodium Phosphate—April production of meta showed 2,677 tons, compared with 1,791 tons in the preceding month and 3,179 in April, 1948. Output of tetra in April was 5,568 tons, against 6,845 in March and 5,057 in April last year.

Sodium Silicate—Output in April, including soluble silicate glass, liquid and solid and anhydrous, was 32,579 tons, compared with a revised total of 35,423 in the preceding month and 38,773 in April, 1948.

Sodium Sulphate—Lower production was recorded in April. The total for anhydrous refined stood at 9,831 tons, against 11,826 in March and 15,079 in April, 1948.

Zinc Sulphate—Sales since the turn of the month have not been extensive either for agriculture or industry. Demand in general has slowed down and producers are not looking for any immediate recovery in buying interest. Production has been geared to meet requirements.

Acids

Chromic—No shortage of stocks at the present time, which is quite in contrast with a year ago. Platers are taking this chemical for current wants but are not interested in future requirements.

Muriatic—Production has kept stocks plentiful to meet demand which is not unusually active at the present time. In fact, some producers do not look for much of an increase in the volume of business prior to the Fall months.

Naphthenic—Demand has slowed down with current business rather spotty. Stocks have continued at a level to meet requirements readily and prices have remained steady.

Oxalic—Stocks were available for prompt shipment with production cutback in an attempt to keep the market in balance. Demand fair but not unusually active since the turn of the month.

Phosphoric—Production in April was lower than in the preceding month. The total stood at 108,464 tons and included 54,404 tons made from phosphorus and 54,060 made from phosphate rock. The March total was revised to 48,926 tons and in April last year, output registered 47,825 tons. A fair seasonal inquiry is reaching the market at present with stocks fully capable of meeting requirements.

Sulphuric—Buying interest has increased to some extent but not enough to pinch supplies. Producers state that the tonnage moved during June showed improvement over the preceding month. There is still sufficient stocks to meet current requirements in this area.

Non-Ferrous Metals

Aluminum—Shipments of aluminum wrought products during May, 1949, totaled 89,000,000 pounds, the lowest point in three years, according to the Bureau of the Census. The May shipments were 19 percent lower than the 106,000,000 pounds shipped in April and 33 percent under the 135,000,000 pounds shipped in May, 1948. The decrease in the current month's shipments was accounted for by the decline in plate, sheet and strip which dropped to 57,000,000 pounds in May from the 73,000,000 pounds shipped in April. The remainder of the May shipments consisted of 19,100,000 pounds of rolled structural shapes, rod, bar and wire; 12,100,000 pounds of extruded shapes, tube blooms, and tubing; and 1,000,000 pounds of powder, flake and paste.

Cadmium—Market supply position has remained tight with no indication at present of early easement. Production so far this year has never been better than even with demand. Ingots or stick are firm at $2 per pound.

Copper—Priced higher at 17c. per pound for electrolytic with sales at that figure. The upward revision is the first since the decline from 23½c. late in March. In the smelting trade it was said that the rise was attributable to a good demand from trade sources as well as to the long recurrent rumor that the Govern-

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ment would become a large buyer for stockpiling purposes.

Lead—Market displayed a firm tendency under a continued broadening of demand from practically all consuming industries. Sales of good volume were reported on the basis of 12c. per pound New York. The steady prices for lead scrap with reduced offerings were also factors contributing strength to the metal market's position.

Manganese—Exports of manganese and kyanite ores from India in the first five months of 1949 showed a substantial increase over that for the corresponding period in 1948. According to provisional figures, the United States received the largest supply, approximately 143,000 tons, against 134,000 tons in 1948. Exports to the United Kingdom amounted to about 50,000 tons which is over three times the quantity for the same period in 1948. Belgium, Germany and Japan, which received either negligible quantities or no ore at all last year, received about 30,000 tons in the period under review. Export figures for kyanite ore show almost 100 percent increase over those for last year, the figure for 1949 amounting to over 6,000 tons.

Quicksilver—Occasional small lot sales accounted for the market's activity last week. These sales went through on the basis of $81.00 per flask. There was no change in general price range which extended from $79.00 to $84.00 depending upon quantity and seller. Most all of the recent imports are for the government's stockpile and are not available in the open market.

San Francisco—Market remains at quiet level with continued limitation on stocks and no change of price. Metal quoted from $80 to $82 per flask, f.o.b. this city. No confirmation of sales at $80 for small lots.

Silver—There has been an absence of new price developments in this market since the turn of the month. Demand and supply have remained about even. The official closing price for silver bullion in the New York market was 71½c. per ounce.

Silver Bullion Price Range

	Per ounce — New York	London
High	Feb. 14, 1949—71½c.	Jan. 14, 1949—43½d.
Low	Jan. 1, 1949—70c.	Jan. 1, 1949—42½d.

Tin—Reconstruction Finance Corporation has sold tin for the first time this fiscal year at the same $1.03 a pound price that it charged American producers in the twelve months ended June 30.

It seemed clear that this price, the peak brought by tin, will remain the RFC's selling price pending the setting of a new world price, which is something the British control.

Tin concentrate production declined from 13,400 tons in March to 12,900 tons in April, the International Tin Study Group reported. The decline was mainly due to a drop in Malayan output from the March record figure of 5,006 tons to 4,303 tons in April. Bolivian exports dropped to 2,428 tons. Indonesian production recovered further to 2,700 tons after the fallback in January and February. The Belgian Congo and Nigeria put out 1,264 tons and 813 tons respectively.

Zinc—In trade circles it was stated that this metal is commanding more attention on the basis of 9c. per pound, prime western, East St. Louis. Substantial cutback in production has been made pending the permanent revival of buying interest and the market situation presented a firmer appearance at the close of the week.

Trade Briefs

Dr. E. Bruce Ashcraft has been appointed manager of chemistry research for the atomic power division of the Westinghouse Electric Corporation.

Dr. Lincoln T. Work, former director of research and development of the Metal & Thermit Corporation, Rahway, N. J., has become associated with the Powdered Material Research Laboratories, Cambridge, Mass.

J. M. Lehmann Company, Lyndhurst, N. J., has inaugurated a new sales and reconditioning service for west coast users of machines built by it. The Moore Drydock Company, industrial engineering and machinery division, Oakland, Calif., has been appointed agent for Lehmann on the coast.

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Ore Milling Study Results Published

Methods of increasing the efficiency of milling operations at one of the nation's largest ore-treatment plants at Cardin, Okla., are described in a report made public by James Boyd, director of the Bureau of Mines. The publication reviews a cooperative milling investigation conducted by the bureau and the Eagle-Picher Mining & Smelting Company.

Results of the study showed that the recovery of zinc minerals could be substantially increased by improving cone operating conditions and that, by applying the sink-float treatment to certain types of jig feed, the loss of zinc in industrial wastes could be reduced by approximately 50 percent. The investigation also indicated that the crushing and wet grinding of ferrosilicon are commercially feasible.

A free copy of Report of Investigations 4511, "Investigation of Concentration Sections at the Central Mill of the Eagle-Picher Mining & Smelting Co., Cardin, Okla." may be obtained by writing to the Publications Distribution Section of the Bureau of Mines, 4800 Forbes street, Pittsburgh 13, Pa.

Lead Deposits Survey Described in New Report

Results of an investigation of the Nigger Jim lead diggings in the northwestern part of Lafayette County, Wis., conducted by the Bureau of Mines in 1947 and 1948 as part of a comprehensive survey of shallow lead deposits in southwestern Wisconsin, are presented in a report released by the bureau.

A free copy of Report of Investigations 4372, "Investigation of the Nigger Jim Lead Diggings, Lafayette County, Wis,", can be obtained from the Bureau of Mines, Publications Distribution Section, 4800 Forbes street, Pittsburgh 13, Pa.

General Magnesite Has Lump Calcined Magnesia

General Magnesite & Magnesia Company, Plymouth Meeting, Pa., has commenced marketing calcined magnesia in lump form, packaged in heat sealed polyethylene bags for protection from moisture and carbon dioxide. In this form, the company says, the magnesia reaches the user with its properties as a scorch resisting material in neoprene undiminished.

Chemical Research Inst. Expands

Chemical Research Institute, Miami, Fla., has expanded its research service to provide technical consultants in bacteriology, pharmacy, geology, chemical engineering, botany and medicine, as well as chemistry, and has added a legal counsel, an arts research counsel and a foreign relations counsel to its staff.

Evans Assigns Two

Evans Research & Development Corporation, New York, has appointed Hugh Pickering research assistant in its physical chemistry research section and Charles S. Block research assistant in its resins and plastics section.

Trade Briefs

William W. Hopwood has been elected vice-president of Hagan Corporation, combustion and chemical engineering firm, Pittsburgh, and it subsidiaries, Calgon, Inc., Hall Laboratories, Inc., and the Buromin Company.

Elmer K. Stilbert, plastics division, coatings technical service, Dow Chemical Company, presented a paper entitled "Latex as an Adhesive for Machine Coating of Paper" before the recent annual meeting of the American Pulp and Paper Mill Superintendents Association.

Hardinge Company, York, Pa. has secured manufacturing and sales rights to a sampler which is being placed on the market as the "Hardinge Automatic Sampler." It is said to be particularly adapted to the mining, stone products, ceramics, chemical and allied process industries.

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Petroleum Chemicals Output, Sales: 1948

United States production and sales of crude products from petroleum and natural gas for chemical conversion during 1948 have been listed by the Tariff Commission in its report on synthetic organic chemicals. The data are as follows:—

	Production	Sales
Aromatics and Naphthenates[1]		
Total	892,107,000	687,272,000
Cresylic acid, crude	[2]	[2]
Naphthenic acid[3]	25,420,000	8,243,000
Toluene, all grades[4]	358,849,000	301,319,000
Xylene, all grades[5]	382,696,000	257,143,000
All other aromatics[6]	125,142,000	120,567,000
Aliphatic Hydrocarbons		
Total	3,022,200,000	2,310,358,000
C_2 hydrocarbons—		
Ethylene[7]	383,448,000	149,072,000
C_3 hydrocarbons—		
Propane and propylene	713,629,000	497,281,000
C_4 hydrocarbons, total	1,656,689,000	1,413,156,000
1,3-Butadiene, grade for rubber (Elastomers)[8]	660,915,000	654,613,000
1-Butene and 2-butene fraction[9]	820,439,000	652,979,000
All other	175,335,000	105,564,000
C_5 hydrocarbons	12,971,000	6,723,000
All other aliphatic hydrocarbons, total	255,463,000	244,126,000
Di-isobutylene	9,225,000	8,174,000
All other[10]	246,238,000	235,952,000
Grand total	3,914,307,000	2,997,630,000

[1] The chemical raw materials designated as aromatics may include some compounds identical with those obtained by the carbonization of coal or the processing of coal tar; those derived from these sources are, however, excluded from these statistics.

[2] Statistics on the production and sales of crude cresylic acid have been included in "All other aromatics" to prevent disclosure of the operations of individual producers. In 1948 production of crude cresylic acid from petroleum and coal tar combined amounted to 28,801,000 pounds. Sales statistics are confidential.

[3] Includes statistics for crude sodium naphthenate and for a small amount of copper naphthenate.

[4] Includes data on a 90-percent toluene basis for crude toluene concentrate from petroleum for use in aviation fuel. Statistics on toluene derived from coal tar are included in the section on crude chemicals from coal tar. Total United States production of toluene from all sources was 604,272,000 pounds (83,463,000 gallons); sales were 546,946,000 pounds (75,545,000 gallons), valued at $17,205,000.

[5] Statistics on xylene derived from coal tar are included in the section on crude chemicals from coal tar. Total United States production of xylene from all sources was 440,315,000 pounds (61,070,000 gallons); sales were 313,628,000 pounds (43,499,000 gallons), valued at $8,671,000.

[6] Includes data for alkyl aromatics, aromatic distillates and solvents, crude sodium carbolate and phenolates, and crude cresylic acid.

[7] Statistics on the production of relatively small amounts of ethylene from coke-oven gas and from alcohol are included in the section on miscellaneous chemicals.

[8] Statistics represent the production of new butadiene, and exclude data for recycled material. Statistics represent the total quantity produced and sold both for government account and for private account.

[9] Represents butene content of crude refinery gases for use in the manufacture of butadiene.

[10] Includes statistics for aliphatic solvents, ethane, hydrocarbon mixtures, isoheptenes, nonene, dodecene, polybutene, and other hydrocarbons.

Note.—The statistics on sales of crude products from petroleum and natural gas for chemical conversion in 1948 do not include the quantity and value of interplant transfers as did the statistics for 1947 and earlier years. Before 1948 the interplant transfers probably accounted for 10 to 20 percent of the total of sales plus interplant transfers.

It should also be noted that there is considerable duplication in the totals given in the above table as the totals include statistics of production and sales of certain products which were derived from other products, statistics for which are also included. For example, most of the butadiene reported as produced or sold was derived from the 1-butene and 2-butene fraction. Othe duplications also occur in the totals, but they are of much smaller magnitude than the one just cited.

Salt Lake Pipe Line Co. Asks Bids on New Pipeline

The Salt Lake Pipe Line Company, a subsidiary of the Standard Oil Company of California, has issued a call for construction bids on the initial portion of a 560 mile oil products pipeline from Salt Lake City to the northwest. The first leg of the line will span 320 miles between Salt Lake City and Boise, Idaho, and is expected to cost more than $6,000,000.

Trade Briefs

Precision Scientific Company, Chicago, has commenced production of its new "Streamliner" model laboratory water still.

Hinde & Dauch Paper Company, Sandusky, Ohio, have prepared a series of booklets on packaging, copies of which may be obtained by writing the company.

Socony - Vacuum Oil Company has awarded $2,000 to Brown University, Providence, R. I., for a fellowship in "Physics of the Solid State," during the year beginning July 1.

John J. Healy, jr., assistant general manager of the Merrimac Division of Monsanto Chemical Company, has been elected a director of the Merritt-Monsanto Corporation, Lockport, N. Y. Mr. Healy will continue to serve in his Merrimac post.

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Petroleum Derivatives

One East Coast seller of home heating oils and kerosene upped jobber discounts for July and August deliveries, which action was tantamount to a reduction of one-tenth to one-fifth cent per gallon. With the exception of the West Coast, where there were decreases in cleaning solvent and lacquer diluent, the market for derivative materials was otherwise unchanged.

Despite a further drop in steel operations and a reported narrowing of coaltar aromatics, producers of petroleum toluol and xylol indicated that no influx of new business had yet developed. However, they stated that the situation was being closely followed, and that the next four to six weeks would be the critical period. Meanwhile, stocks of petroleum aromatics remained comfortable. There were no price changes.

One seller of aliphatic-aromatic blends reported that June sales were 15 percent better than any month this year. Other marketers also reported rising demand. Supplies, however, remained good. Listings were steady.

Call for aliphatics continued on the upgrade during the week, but sellers insisted that the general volume of business was still slightly under that of last year. Propane steadied at lower levels in the wake of the recent one-quarter cent reduction. Demand for petrolatum and white mineral oil during June was said to have shown improvement.

Solvents and Diluents

Aromatic Solvents — Petroleum producers were reported to be keeping close watch on the coaltar situation, as steel operations continued on the down-grade. However, sales of petroleum toluol and xylol continued at previous levels. There was no appreciable influx of new business, despite the slow-down of coal production and the reported narrowing of coaltar aromatics. Some makers of the petroleum derivatives indicated that they regarded the next four to six weeks as the crucial period. Meanwhile, supplies of petroleum aromatics continued comfortable in all areas. Prices were maintained, and there was no sign of any imminent change in the situation.

One maker of aliphatic-aromatic materials reported that June sales were 15 percent better than any month this year. The pick-up in demand was attributed to increased activity by the paint trade. Other sellers of blends, while not so fortunately situated, indicated that business was on the rise. Higher boilers were also in reasonably good call. The supply position of both higher boilers and blends remained excellent. The market was quotationally without feature.

Cleaners' Naphtha —Business continued to show mild improvement during the past seven days, but the general situation was still not quite up to that of last year. Stocks were good, offerings continuing in free availability to all comers. Prices held steady, at 10⅞c. to 11⅝c. per gallon, group 3. Along the East Coast, tankcar prices were steady at 14c. at all points except Philadelphia, where the quotation was 1c. per gallon lower.

Lacquer Diluent — The price structure remained on a par with previous levels during the past week. Group 3 sellers quoted 11⅛c. to 12⅛c. per gallon, while East Coast marketers were at 16c. Sales continued on the rise in all areas, but business as a whole was still under 1948 volume. Supplies were ample, and offerings were being made in good quantities to all comers.

Mineral Spirits — Buying interest continued to show improvement, as the industry moved into the third quarter. Sellers insisted, however, that overall demand was still under 1948 levels. Meanwhile, the supply position continued plentiful, with offerings in excellent availability to all comers. Listings were steady. Group 3 producers quoted 9⅞c. to 10⅞c. per gallon. On the East Coast, tank quotations were 14c. at all points except Philadelphia, where the price was 1c. per gallon lower.

Rubber Solvents—There was no appreciable change in the market position of these aliphatics last week. Stocks remained at uniformly high levels. Demand, though up somewhat, was still not quite on a par with 1948 business. The price structure was without variance, listings holding at 15c. per gallon, East Coast, and at 10⅜c. to 10⅞c., group 3.

Stoddard Solvent—In Philadelphia last week, the tankcar price was 13c. per gallon. Elsewhere along the Eastern Seaboard, listings were at 14c. In group 3, marketers quoted 9⅞c. to 11⅜c. All quotations were unchanged from the previous week. Demand was on the up-grade during the past seven days. Business generally, however, fell short of 1948 volume. Stocks were good everywhere in the market.

V. M. & P. Naphtha — There was no change in the market position of this solvent during the past week. Prices held steady at 15c. per gallon, East Coast, and at 10⅞c. to 11⅝c., group 3. Sales, though slightly better, were still below last year's volume. Supplies continued in ready availability to all comers during the period under review.

Lighter Fractions

Butane—Demand remained slow last week, as stocks continued plentiful. The price structure was firm, group 3 listings holding at 3½c. per gallon.

Heptane—Moderate call and abundant supplies featured this section during the past seven days. Quotations were steady at 12½c. to 13½c. per gallon, group 3.

Hexane—There was no change in listings during the past week, continuing at 13½c. to 14½c. per gallon, group 3. Buying interest was fair. Stocks were ample.

Pentane—Quotations held at 10½c. to 11½c. per gallon, group 3. Inquiry continued moderate. The supply position remained excellent in all areas.

Propane—Prices leveled off at 2½c. per gallon, group 3, in the wake of recent ¼c. reductions. Demand was slow. Stocks were good.

Miscellaneous

Crude Oil—There was no change in postings during the week. Arrivals totaled 2,198,942, barrels of crude petroleum from Puerto La Cruz, Mena El Ahmadi, Caripito, Covenas, Pamatacual, Ras Tanura, Fahaheel and Amuay.

The American Petroleum Institute reported daily average crude-oil production for the week ended June 25 at 4,889,000 barrels, or 21,000 barrels above the total of the preceding week. Daily average crude runs to stills of 5,322,000 barrels were 151,000 barrels above the level of the preceding week. Runs of foreign crude amounted to 374,000 barrels daily, compared with 415,000 barrels in the preceding week.

Fuel Oil—A leading marketer on the East Coast last week announced a special discount of 3/5c. per gallon for July deliveries and ½c. in August for heating oils and kerosene to resellers, distributors and jobbers. Previously, the discount was 2/5c. per gallon. At the same time, the company offered price protection against a decline between June 1 and October 1. According to an official statement, the two-pronged action was designed to step up the movement of these products from refineries and terminals to the consumer. Arrivals during the period under review totaled 499,150 barrels of fuel oil from Aruba and Curacao.

Gasoline—Producers regarded the consumption picture as normal last week, and expected no undue difficulties about supply in any area this Summer. There were still danger spots, but the trade as a whole described the current condition of the market as healthy.

Petrolatum—June sales were reported to have taken a spurt, and volume last week was said to be good. Despite the recent influx of business, the supply position remained ample in all quarters, and no shortages were expected anywhere. There were no price changes during the past seven days, and none were anticipated within the immediate future.

White Mineral Oil—The price structure was without change during the past week, listings holding steady in all areas. Business was said to be on the up-grade. However, there was no difficulty about supply, offerings continuing in excellent availability to all buyers.

Los Angeles Petroleum Market

Increasing demand in solvents and diluents together with adequate supply and slight price decreases have stimulated the market here. New price quoting system by major oil companies accounts for decrease in cleaning solvent and lacquer diluent prices and an increase in stoddard solvent. Cleaning solvent quoted at 15.5c. per gallon, ex-tax, f.o.b. Los Angeles basin area; lacquer diluent listed at 16.5c., same basis, and stoddard solvent at 15.7c., same basis.

Seasonal conditions still render the propane and butane market dull. Prices remain unchanged. Propane was quoted at 8.8c. to 9.3c. per gallon, tankcar, f.o.b. Los Angeles area basin. Butane posted at 9.3c., same basis.

Prices of paraffin wax unchanged after a slight drop at the turn of the quarter. Oversupply picture still obtains due to Mid-West competition with no evidence of change in the near future Demand unchanged. High melting point 140-147 ASTM, carload, loose slabs, f.o.b. shipper's refinery, San Francisco Bay area, 6.95c.; 146-148 ASTM, 7.15c., and 157-162 ASTM, 7.6c. per pound.

Market Trends

Prices Advanced
None

Prices Reduced
None

(For Current Prices see Page 9)

Crude Oil Stocks

Stocks of domestic and foreign crude petroleum at the close of the week ended June 25 totaled 274,114,000 barrels, according to the Bureau of Mines. Compared with the total of 274,956,000 barrels for the preceding week, this represents a decrease of 842,000 barrels, comprising a decrease of 554,000 barrels in stocks of domestic crude and a decrease of 288,000 barrels in stocks of foreign crude.

For Late Market Developments, See Page 4

Trade Briefs

B. R. Jackson, United States representative of Anglo-Iranian Oil Co., Ltd., for the last ten years, is taking up his new duties as a director of the company in London. He was elected to the board in November. The New York office has been left in charge of W. D. Heath-Eves.

Dr. V. I. Komarewsky, professor of chemical engineering and director of the catalysis laboratory at Illinois Institute of Technology, has been invited to speak before the Danish Chemical Society in Copenhagen in September. He will discuss the "Catalytic Reaction of Hydrocarbons."

Precision Scientific Develops New Vacuum Regulating Apparatus

The Precision Scientific Company, Chicago, has developed a new apparatus for regulating and holding a constant vacuum, known as the "Micro-Set Manostat." Installed between a vacuum pump and a distillation system, the apparatus operates on a principle of controlled leaks to atmosphere. Excess vacuum is leaked constantly, if necessary, through one end of a double glass stopcock. Leakage at the other end is controlled through a regulator which actuates a solenoid to open or close a leak as needed.

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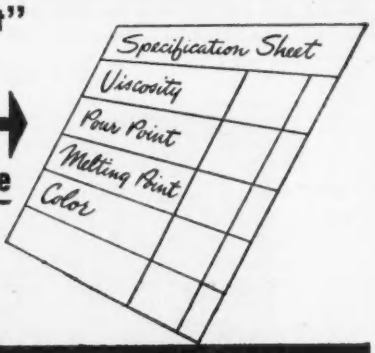

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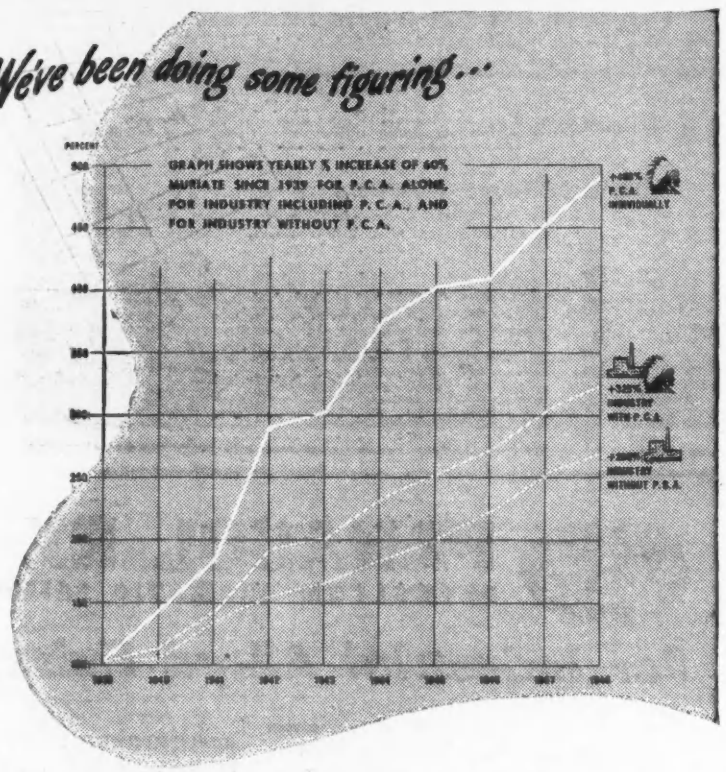
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Agricultural Chemicals

Canadian ammonium nitrate has been reduced sharply in price. Menhaden fish meal advanced in the Baltimore area last week under an active demand for stock feed use in the West. The rapid absorption of production by the feed trade has kept the market in short supply. Menhaden scrap was also priced higher. So far, the catch off the eastern coast has not averaged better than medium. Dried blood and tankage sold at former levels. Demand was fairly active but not of a character to lift quotations. The continued low production of castor pomace has kept any additional stocks from reaching the market. All grades of bone meal were firm at the late advance, maintenance of the buying movement for feed requirements being the main factor in contributing strength to the market position.

Fertilizer mixers are placing contracts for superphosphate at the same prices that prevailed last season. Producers of phosphate rock have not entirely caught up with their contract shipping schedules. Demand for ground rock has relaxed. Potash shipments are going forward in good volume. A seasonal let down is noted in the inquiry for sodium nitrate. Ammonium sulphate has remained firm at former figures. In general, demand for prompt shipments of fertilizer materials has slowed down. According to reports, farmers in the eastern area have about abandoned the idea of a second crop owing to the dry condition of the soil occasioned by the draught.

Canadian exports of fertilizers in the first quarter of 1949 were almost $3,000,000 greater in value than those in the corresponding period of 1948. Totals were $11,621,000 and $8,858,000, respectively, the Dominion Bureau of Statistics reports.

Nitrogenates

Ammonium Nitrate—Price of Canadian ammonium nitrate has been substantially reduced. The current market is $63 per ton in bags, carlot shipments from works. Economies in the cost of production being passed along to the consuming trade.

Ammonium Sulphate — May production of cokeoven sulphate amounted to 147,064,376 pounds and there were 8,190,755 pounds made from purchased synthetic ammonia according to the Bureau of Mines. In April output was 145,779,815 pounds and 8,636,868 pounds made from purchased synthetic ammonia. Production in May last year was 141,879,500 pounds and 5,506,400 pounds made from purchased synthetic ammonia. The first five months showed a total production of 726,179,311 pounds of coke-oven material and 42,274,536 from purchased synthetic ammonia, compared with 666,666,500 pounds of sulphate from coke-ovens and 22,690,900 from purchased synthetic ammonia. Stocks on May 31 totaled 32,900,956 pounds, against 26,964,648 pounds on April 30 and 46,477,606 on May 31, 1948.

Castor Pomace—Production has continued at a low level and shipments are confined entirely to contract consumers. No change in the contract price has been recorded.

Dried Blood—Firm at the higher prices previously reported. Sales were not extensive and all were made to the feed trade. New York named $8 per unit of ammonia and Chicago $8.50.

Fish Meal—Priced higher for Menhaden at $185 per ton for 60 percent protein and $190 for 65 percent. Scrap was priced at $175, all Baltimore area. The feed demand was active with buyers taking material as fast as produced for shipment West. Catch averaging medium.

Hoof Meal—Trading has continued quiet with occasional sales at $7 per unit of ammonia in carlots, Chicago basis.

Sodium Nitrate—Market situation quiet with stocks adequate to meet requirements. Not much sign of unusual activity over the Summer months.

Tankage—Buying interest from the feed trade active enough to keep the market steady at former price levels. More demand at Chicago than in New York. Prices $8.25 per unit of ammonia here and $9 Chicago.

Phosphates

Phosphate Rock—Production is getting back to normal gradually after the interruption of output caused by labor strikes at the Florida mines. Shipments are still behind schedule in some quarters. Demand is averaging fair for most grades although some slackening in the inquiry for ground rock is reported. Europe is showing moderate interest with no sizable tonnage orders placed to date.

Superphosphate — Contracts for normal are being written on the basis of 76c. per unit of a-p-a in Baltimore and 77c. Carteret, with demand satisfactory and stocks fair but not excessive. The above prices are the same as those prevailing at the close of 1948-1949 season.

Potashes

Contract shipments to fertilizer mixers are going forward in steady volume with the agricultural movement fully up to normal dimensions. Demand from the chemical industry has dropped off to some extent as a result of the relaxation of inquiry for potash based chemicals and the current desire of manufacturers to keep inventories low.

Los Angeles Fertilizer Market

Los Angeles.—Only minimum essential demand reported with prices steady. Supplies of fish meal easier with triple superphosphate very tight. Availabilities good on all other offerings. Ruling prices were:—Ammonia nitrate, $73.57 per ton f.o.b. this city (4 percent freight increase announced on production plant price included in above. Up 7 cents from last week). Ammonia phosphate, $65 per ton for 16/20 grade f.o.b. this city and $89.30 per ton for 11/48 grade f.o.b. this city. Ammonia sulphate, $56 bagged f.o.b. this city. Same for Canadian material bagged f.o.b. Los Angeles. $2.50 to $3 less for bulk. Blood meal, $6.75 to $7 per unit of ammonia at source. Bone meal, $65 for steamed 1/30 meal. Fish meal, $219 per ton f.o.b. this city for 60 percent, eastern menhaden $230 per ton 60 percent protein, and $234 per ton f.o.b. this city for 60 percent California sardine meal. Nitrate of soda, $56 per ton in 100-pound bags f.o.b. Los Angeles Harbor. Bulk $5 less. Potash muriate, 45½c. per unit bulk f.o.b. Trona basis. Potash sulphate, 95 to 98 percent K_2SO_4, 79c. per unit f.o.b. Trona. Superphosphate, $21.20 in bulk f.o.b. this city. New season contracts specify $2.50 extra for bagged against $4 bagged last year. Tankage, dry rendered, ground 50 percent protein, $5.50 per unit of ammonia at production plant, plus 10c. per unit of b.p.l.

Pesticides

Potato and tomato plants as well as other garden truck have been seriously injured in the eastern area by the long drought. In one quarter it was stated that farmers will likely purchase more insecticides to keep what remains of their crops. Other market observers stated that the losses were so severe that farmers may not be able to finance additional purchases of insecticides. Reports from the Midwest note a heavy infestation of corn borers while advices from the South state the boll-weevil is on the march. Demand from these areas has shown improvement for benzene hexachloride, DDT and toxaphene. Shipments of DDT to the Midwest have been sufficient to tighten the supply situation appreciably and the market has developed a firmer tone.

The Canadian Government and those of the Prairie Provinces are assisting farmers in combating a possible serious grasshopper plague. Provincial and municipal Governments are expected to spend approximately $1,500,000 in 1949 on grasshopper control; about two-thirds will be used in Saskatchewan, where the danger is greatest.

Benzene Hexachloride—April production was placed at 1,223,111 pounds by the Bureau of Mines. March output was 1,414,070 pounds, which was high for the first four months of 1949. The gamma isomer content of benzene hexachloride in April was 167,953 pounds, compared with 195,271 pounds in the preceding month.

Cube Root—Peru's exports of cube dry roots in 1948 totaled 1,814 metric tons, valued at 3,643,680 soles (1 sole equals $0.1538, United States currency). The United States took 1,719 tons; the United Kingdom and Belgium were the other purchasers. Exports of dry roots in the first two months of 1949 amounted to 693 tons, valued at 1,164,329 soles, and went

For Late Market Developments, See Page 4

Market Trends

Prices Advanced

Fish meal, menhaden, $5 per ton. scrap, menhaden, $5 per ton.

Prices Reduced

Ammonium nitrate, Canadian, $16.50 per ton.

Comparative Price Indexes

(100—August 1, 1914)

Last week	Prev. week	Last month	Last year
81.6	81.6	81.6	76.4

(*For Current Prices see Page 9*)

mostly to the United Kingdom, the United Kingdom taking 41 tons. Exports of ground roots (powder) in 1948 were 144 tons, valued at 536,702 soles. The United States was the principal purchaser (93 tons), followed by the Netherlands and the United Kingdom. Exports of ground roots in the period January-February, 1949, totaled 326 tons, valued at 951,575 soles. The United States was the principal purchaser (295 tons), followed by the United Kingdom and the Netherlands.

Potash Salts Output

—*Continued from page 3*

potassium salts passing the 2,000,000 mark, with an equivalent K_2O content of 1,100,787 short tons in 1948. Production of both grades of muriate of potash were larger in 1948 than in 1947; output of manure salts increased markedly, and sulphates declined. Salient statistics of the potash industry in this country during 1948, as compared with 1947, are as follows:—

	1948	1947
Production—		
Potassium salts (marketable) short tons.	2,138,493	1,905,776
Approximate equivalent, K_2O short tons.	1,139,881	1,029,875
Sales by producers—		
Potassium salts short tons.	2,148,807	1,953,307
Approximate equivalent, K_2O short tons.	1,143,339	1,053,266
Value at plant	$35,998,758	$34,716,051
Average per ton	$16.75	$17.77
Imports—		
Fertilizer materials short tons.	47,515	47,815
Approximate equivalent, K_2O short tons.	26,002	25,266
Value	$2,340,442	$1,887,771
Chemical materials short tons.	5,375	3,228
Approximate equivalent, K_2O short tons.	1,179	712
Value	$723,135	$387,580
Total imports short tons.	52,890	51,043
Approximate equivalent, K_2O short tons.	27,181	25,978
Value	$3,063,577	$2,475,351
Exports—		
Fertilizer materials short tons.	104,176	102,939
Approximate equivalent, K_2O[1] short tons.	58,026	57,337
Value	$3,498,240	$3,251,645
Chemical materials short tons.	23,892	21,970
Approximate equivalent, K_2O[1] short tons.	11,707	10,765
Value	$4,790,715	$5,434,462
Total exports short tons.	128,068	124,909
Approximate equivalent, K_2O[1] short tons.	69,733	68,102
Value	$8,288,955	$8,686,107
Consumption—		
Apparent consumption[2]—		
Potassium salts short tons.	2,073,629	1,879,441
Approximate equivalent, K_2O short tons.	1,100,787	1,011,142

[1] Estimate by Bureau of Mines.
[2] Quantity sold by producers, plus imports, minus exports.

Statistics on the production of potassium salts, by grades, during 1948, as compared with 1947, are as follows, in short tons:—

	1948	1947
Muriate of potash—		
60-62% K_2O minimum[1,2]	1,523,937	1,394,202
48-50% K_2O minimum	145,675	125,120
Manure salts	260,339	174,145
Sulphate of potash and sulphate of potash-magnesia	208,542	212,309
	2,138,493	1,905,776

[1] Includes refined potash.
[2] Includes some 93-96% KCl.

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Form	Granules
Odor	Moderate aromatic
Acidity (as Phthalic Acid), %	0.10 Maximum
Saponification Number	335-345
Melting Point, °C.	62-65
Containers	Fibre drums containing approximately 230 pounds net.

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(Diisooctyl Phthalate)

Color	Clear, 100 Hazen Maximum
Form	Liquid
Odor	Characteristic
Acidity (as Phthalic Acid), %	0.01 Maximum
Specific Gravity, 20/20° C.	0.984±0.005
Saponification Number	280-290
Cloud test for water	Clear at 0° C.
Containers	50-55 gal. non-returnable steel barrels.

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Color	Clear, practically water-white (50 Hazen maximum)
Form	Liquid
Odor	Mild Ester
Distillation at 5 mm. Hg, °C.	189-222
Specific Gravity, 25/25°C.	1.076
Pounds per Gallon at 25°C.	8.95
Refractive Index at 20°C.	1.5071
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Containers	50-55 gal. non-returnable steel barrels.

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Coaltar Chemicals

Crude naphthalene and tar acid oil prices were reduced last week by one producer who was on the high side of the range. The new prices lined up with the listings of other producers who represented the low side. The weekly index figure was unchanged.

There had been some talk of new prices for cresol and cresylic acid but nothing materialized during the week. Phthalic anhydride, which consumers were watching after the recent drops in crude naphthalene, held to former price levels. No changes were anticipated, since the new lower prices of the raw material were helping offset the increased costs of making phthalic. Creosote showed no change and none was expected immediately.

The toluol situation seemed to be tightening up a bit. Demand was good and supplies none too plentiful, although the situation was still by no means critical. Xylol was tight and was expected to stay that way. Benzol was comfortable.

The operating rate of the steel industry took a sharp dip during the week, but this was attributed largely to the Fourth of July holiday and the fact that some plants had shut down for Summer vacations. The American Iron and Steel Institute reported that companies having 94 percent of the capacity of the industry were scheduled to produce at 61.2 percent of capacity. This was equivalent to 1,128,200 tons of steel ingots and castings, compared to 1,473,000 tons scheduled for the previous week, 1,627,600 tons one year ago and 1,281,210 tons for the average week in 1940, the highest pre-war year.

Basic Products

Benzol—Supplies of this material continued at about the same level last week. They were reported to be sufficient to accommodate the market. Recently, it was noted that there had been some improvement in the demand for the item, although it was still not what it was before the turn of the year. On the other hand, there was a lessening in steel production and because of the current supply and demand situation it was thought in some quarters that there might be something approaching a balanced condition in the market in the not far off future. The price structure for the material remained at former levels during the past week and there were no indications that there were any changes being planned for the time being.

Production of motor grade benzol in May totaled 2,613,392 gallons. This represented an increase of 28.1 percent over the production of 2,040,613 gallons during April. It was also considerably above May of last year, when 869,700 gallons were produced. Through May of this year, 7,650,272 gallons of the material were produced as compared to 4,050,600 gallons during the comparable period a year ago. Nitration 1° material was produced in the amount of 2,091,328 gallons during May. This was 7.9 percent below the production of 2,070,585 for the month before. Production of the industrial 2° material was also down during the month of May. Total output for that period was 8,991,275 gallons, as compared to 9,571,568 for the month of April. This represented a decrease of 6.1 percent. The first five months of this year showed an output of 18,031,800 gallons, as compared to 13,142,242 gallons for the comparable period a year ago. Other grades of material were produced in the amount of 137,485 gallons during May, compared to 118,853 gallons during the preceding month.

Coaltar—The situation in coaltar was largely unchanged during the past week. In some quarters fears were expressed that the lessening production of the material by the steel industry might cause a pinch in the supply of this item, but as of last week no difficulties had developed and sources close to the market said that they were not anticipating any such changes, at least not in the immediate future. Demand was characterized at about fair. Before the first of the year, it had been good but since that time it had witnessed a drop. Therefore, it was pointed out, lessened output by steel mills would not have an immediate effect. The price of the material was reported to be unchanged during the week and there were no indications that there would be any revisions in the immediate future.

Crude coaltar during the month of May was 1.8 percent ahead on production as compared to the previous month. The output for May was 65,106,786 gallons, as compared to 63,952,536 gallons for the previous month. The output for the first five months of the year was 322,176,110 gallons, as compared to 296,279,500 gallons for the comparable period a year ago.

Creosote—Production of this material during the month of May was reported to be 2,249,991 gallons, as compared to 1,901,848 gallons during the preceding month. This was an increase of 18.3 percent. During the first five months of this year production was 10,649,551 gallons, as compared to 16,200,400 gallons during the corresponding period a year ago.

Marketwise, there was little change to be noted last week. One source close to the trade said it felt there had been a better tone apparent recently. The railroads and utilities had indicated that they were willing to do a little better than hand-to-mouth buying. Also, this was the season when Winter-cut timber was dried and ready for preserving and this was helping the demand. Stocks were plentiful and there was a good flow of the material coming in from abroad. There was a reasonably steady flow from Germany, as that country was getting gack into production, but the output was not large and the material was being mixed in England or Holland to give tankers a full cargo. Prices were still holding at their previously noted levels and there were no changes indicated for the immediate future, although it was said that some sellers at the high of the range were willing to shade their prices somewhat for orders of good quantity.

Cresol—There had been some talk of price revisions for this material in recent weeks, but a check with producers could disclose none who were definitely planning any immediate changes. Foreign goods was still on the market in large quantities and at varying prices and was having an unsettling effect on the market here. There were no particular changes to be noted in the supply and demand situation.

Cresylic Acid—Pricewise, there were no changes reported during the past week, although there had been some talk to the effect that there might be. The market continued unsettled as a result of the heavy supplies of the item from abroad. This material was being offered at various prices and was having a disturbing effect on the price structure of the domestic material.

Naphthalene—Major producers by last week had followed the action of a first producer who during the previous period had reduced the price on the crude 74 and 78 degree material. This brought all major producers into line at 5¼c. in tanks on the 74 degree and 5¾c. in tanks on the 78 degree. The supply and demand situation for the material remained about the same as in recent weeks. The heavy seasonal sales for mothproofing material were about over for this season.

Production figures show that the crude solidifying at less than 70° was produced in the amount of 948,089 pounds during May, as compared to 1,111,383 pounds during April. This represented a decrease of 14.7 percent. Production through the first five months of the year totaled 6,290,995 pounds, as compared to 6,216,200 pounds for the comparable period a year ago. The material solidifying at 70° and less than 79° was down 9.9 percent in May. Production that month was 5,942,877 pounds,

For Late Market Developments, See Page 4

Market Trends

Prices Advanced
None

Prices Reduced
None

Comparative Price Indexes
(100=August 1, 1914)

Last week	Prev. week	Last month	Last year
114.4	114.4	115.0	154.6

(For Current Prices see Page 9)

Coke By-Products

Estimates of by-product cokeoven operations in the week ended June 25 indicate the following output of by-products from that source:—

Ammonia liquid, NH_3	lbs.	1,020,618
Ammonia sulphate	lbs.	26,428,641
Benzol	gals.	3,330,438
Coaltar	gals.	12,354,852
Creosote oil	lbs.	687,374
Naphthalene, crude	lbs.	1,632,989
Phenol	lbs.	193,380
Toluol	gals.	660,037
Xylol	gals.	150,406

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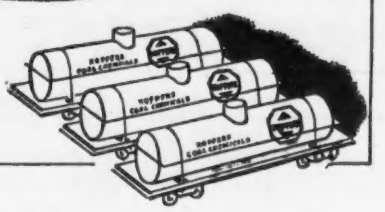

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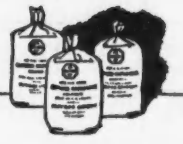

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as compared to 6,595,055 pounds in the preceding month. The production through May of this year was 34,334,749 pounds, as compared to 36,172,700 for the comparable period a year ago.

Phenol—Pricewise, there were no changes announced in the market for this material during the past week and there were no indications from producers to indicate that they were planning any revisions in their schedules in the immediate future. The supply and demand of the material continued in largely the same situation that had been noted in recent weeks.

Pyridin—The pharmaceutical material continued in a tight position as far as the supply was concerned, while the demand for it remained strong. There was an easier situation in the supply of the denaturing grade, while the demand for it was not so strong. There were no changes reported in the price range and there were no indications that there would be any in the immediate future.

Solvent Naphtha—The price structure for this material remained unchanged during the past week and there were no signs that would indicate that any immediate changes were being planned. The demand for the item continued to be noted at about the previous rate, while supplies showed no appreciable change.

The crude heavy solvent during the month of May was produced in the amount of 406,850 gallons, while the output in April was 396,713 gallons. This represented an increase of 2.6 percent. Production during the first five months of this year was down to 1,893,417 gallons, as compared to 2,032,700 gallons for the comparable period a year ago. The refined light solvent in May was produced in the amount of 10,000 gallons, as compared to 33,300 gallons for May a year ago. Figures were not available for April of this year.

Toluol—Demand for this material was still running at pretty good levels during the past week, and it was reported that a few plants were shipping out of immediate production. The supply was not what might be called tight, but was approaching a fairly close balance with the demand. Although a serious pinch did not seem immediately probable, the industry was keeping an eye on steel, for in recent weeks the operations in that industry had dropped off considerably, and this naturally meant a decrease in the amount of raw coaltar available. Prices were still unchanged and there were no signs that there were any revisions in the making.

Production of nitration 1° material during May of this year was 1,473,545 gallons, as compared to 1,388,876 gallons for the preceding month. This represented an increase of 6.1 percent. During May a year ago the production was 1,756,600 gallons. Through the first five months of this year production amounted to 7,848,811 gallons, while for the comparable period last year it was 9,356,700 gallons.

Industrial pure 2° toluol during May was produced in the amount of 483,784 gallons, compared to 599,156 gallons during the month of April. This was a decrease of 19.3 percent. May production a year ago came to 437,800 gallons. The first five months of this year showed a total output of 2,698,414 gallons, while for the corresponding period a year ago the production was 2,025,700 gallons. All other grades were produced in the amount of 62,393 gallons during May of this year, as compared to 47,643 gallons in the month before. This was a 31 percent increase. The production for May last year came to only 3,600 gallons. The first five months of this year showed an output of 265,502 gallons, while during the comparable period last year the output was 158,000 gallons.

Xylol—Conditions in this market showed little change during the past week. Supplies were still on the short side, while the demand for the item was still running along at good levels. There were no indications that there would be any great change in this condition in the immediate future. The price structure of the item was still holding at previously noted levels and producers gave no indications that they were planning any at this time.

The output of all grades of xylol during the month of May was reported to be 746,412 gallons, as compared to 583,570 gallons during the previous month. This represented a gain of 27.9 per cent. Production in May a year ago was reported to be 576,900 gallons. The output of the first five months of 1949 was 3,126,585 gallons, as compared to 3,024,400 gallons a year ago.

Intermediates

Tar Acid Oil—The one producer who was on the high side of the range last week dropped its prices to line up with those previously announced by other producers. This made the 15-18 percent material uni-

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formly 33c. in tanks, 41c. in carloads and 44c. in less than carloads. For the 25-28 percent material the price listings were a uniform 40c. in tanks, 48c. in carloads and 51c. in less than carloads.

Phthalic Anhydride—The price on this material was still holding to its previous level during the past week, and the indications from producers were that it would probably continue to do so for at least the time being. Although there had been drops in crude naphthalene, it was said that they were helping to offset the higher costs of production and did not represent any gain for the makers of phthalic. The demand for the item recently had shown some slight increase, and was about holding to the better level last week. Supplies continued ample.

Coaltar Products Output In Brazil in '48 Reported

Production of by-products by Volta Redonda, Brazil's key steel mill, during 1948 has been reported by the Brazilian Trade Bureau. The amounts of products manufactured, in liters, are as follows:—

Ammonium sulphate	4.277.000
Motor fuels	2.732.708
Benzol	379.785
Toluol	426.258
Xylol	117.800
Naphtha	51.809
Tar	8.076.593
Pitch	86.600
Disinfectant oils	237.540
Creosote	74.178
Naphthalene	575.000

Trade Briefs

Owens-Illinois Glass Company, Toledo, Ohio, has prepaid its entire $15,000,000 of three year 1½ percent notes, due October 27, 1950.

Dr. Hugh D. Miser, staff scientist of the Geological Survey, has been awarded an honorary degree by the University of Arkansas.

S. G. Ketterer has been appointed Philadelphia district sales manager of Schutte & Koerting Company, Philadelphia.

Bradley Dewey, president of the Dewey & Almy Chemical Company, Cambridge, Mass., has been elected a trustee of American Optical Company.

American-LaFrance-Foamite Corporation has developed a new tinning process for protecting metal from corrosive action which is said to double the life of the company's "Fire-Gun" extinguishers.

Monsanto Appoints Fish To Merrimac Div. Post

Monsanto Chemical Company, St. Louis, Mo., has appointed Walter A. Fish office manager of its Merrimac division, Everett, Mass. In this position Mr. Fish will supervise classification and employment of office personnel and will be responsible for administration and operation of all service departments at the division's headquarters.

Southern Research Institute Adds Pelham to Analytical Staff

The Southern Research Institute, Birmingham, Ala., has appointed Joel D. Pelham head of the analytical section of its physical division. Mr. Pelham was formerly associated with the Anniston Ordnance Depot and E. I. du Pont de Nemours & Co.

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Textile and Leather Chemicals

Trading in textile and leather chemicals last week was reported at low ebb. Consumers restricted demand to small lots for immediate needs. There was no change in quotations. Price index was unchanged at 317.4, against 379.5 for the same week last year.

Inquiry for sizing materials continued of a hand to mouth nature, as consumers kept inventories low. Corn dextrin and starch remained steady, reflecting the firmness in cash corn. Potato starch was closely held by grinders, despite quiet demand. Unsold stocks of this starch was reported at 2,000 tons at Maine mills. Firmness in the Brazilian tapioca flour market was reflected locally and moderate stocks of all grades were closely held. Smaller production of egg albumen and yolk at western plants served to stiffen these materials. Stocks on the spot were maintained at current quotations.

Tanning materials continued inactive. Tanners showed little interest in replacements, except for small quantities for immediate shipment. Tanning operations were reported at 35 to 40 percent of capacity and little improvement was expected until the Fall month.

Production of yarns on the woolen and worsted systems averaged 11,500,000 pounds per week in April, according to the Bureau of the Census. This was 3 percent lower than production for March and 30 percent below for April last year. Of the 3,300,000 woolen and worsted spindles in place, 2,300,000 were active sometime during April. These spindles operated an average of 129,000,000 hours per week:—74,000,000 hours on the first shift, 42,000,000 on the second, and 14,000,000 on the third. Average hours operated were 3 percent above March for woolen spindles, but declined by 18 percent for worsted spindles.

Bureau of the Census, announced that 23,782,000 cotton system spinning spindles were in place in the United States on May 31, 1949. As of the last working day of the month 19,862,000 were consuming cotton; 1,074,000 were consuming other than cotton, and 2,846,000 were idle. The total cotton system spinning spindle hours reported for May, 1949, amounted to 7,737,000, an average of 325 hours per spindle. For the month of April the total was 7,776,000, an average of 327 hours per spindle. During May, cotton system spinning spindles operated at 93.8 percent of capacity based on an 80-hour week, compared with 97.9 percent for the month of April.

Market Trends

Prices Advanced
None

Prices Reduced
None

Comparative Price Indexes
(100—August 1, 1914)

Last week	Prev. week	Last month	Last year
317.4	317.4	317.4	379.5

(For Current Prices see Page 9)

Chemicals

Acetic Anhydride—Buying interest continued light, with suppliers in a position to make prompt deliveries. There was no change in quotations.

Bichromates—Adequate supplies were available for immediate and prompt delivery. Activity in the market was chiefly for delivery against current contracts. New business was confined to actual requirements. Prices of potassium and sodium bichromates were maintained at current levels.

Sulphonated Oils—Lower cost of castor oil created an easier tone in sulphonated grades. No. 3, castor oil was reduced ½c. per pound. Tallow also declined ¼c. per pound.

Sizing Materials

Albumin, Blood—Hand-to-mouth buying was reported for albumin blood and dried soluble blood. Prices were unchanged at the recent decline. Supplies were adequate to cover present demand.

Corn Dextrin—Quotations remained unchanged, despite the limited demand. Consumers continued to operate in a hand-to-mouth manner. All grades were well held.

Corn Starch — Consuming demand fairly active, chiefly for small lots for immediate requirements. Quotations were unchanged and steady, reflecting the firmness in cash corn. Visible corn supply was increased 495,000 bushels to 10,387,000 bushels for the week ended July 2, compared with 5,087,000 bushels for the same time last year, it was reported by the Chicago Board of Trade.

Egg Albumen—Quiet demand was noted last week. Market remained steady. Consumers limited demand to small quantities for actual needs. Edible flake was unchanged at $2.25 to $2.30 per pound, depending upon quantity. Technical was quoted at $1.10 to $1.15 per pound, same basis.

Liquid egg produced during May totaled 99,157,000 pounds, compared with 103,875,000 pounds in May last year. The quantity used for freezing was considerably less than last year and accounts for the general decrease shown in total liquid produced. Liquid egg used for drying in May continued to be above that of a year ago.

Dried egg output during May totaled 7,875,000 pounds, compared with 5,597,000 pounds in May last year. Production consisted of 6,670,000 pounds of dried whole egg, 259,000 pounds of dried albumen, and 946,000 pounds of dried yolk. Dried egg production from January through May totaled 44,430,000 pounds compared with 12,209,000 pounds during the same period last year. Purchases of dried whole egg by the Department of Agriculture from January through June 17, 1949 for price support purposes totaled 48,012,048 pounds.

Egg Yolk—While business was light and spasmodic, supplies were not liberal and were closely held on the spot. Offers from the West were small due to reduced production. Most plants were reported shut down. Prices were steady ranging from $1.15 to $1.20 per pound, according to seller and quantity. Production of yolk in May totaled 946,000 pounds, compared with 1,063,000 pounds during the same month last year, according to the Bureau of Agricultural Economics.

Potato Starch—Consuming interest was still confined to small lots for immediate requirements. Prices were unchanged and steady. Carlots were held at 5.80c. per pound, paper bags, New York basis, and lesser quantities at 7c. to 7¼c., exwarehouse. Unsold stocks in Maine were estimated at 2,000 tons. Idaho mills were reported closed, with production moved against former contracts.

Rice Starch—Trading was quiet. Stocks on the spot were quoted at 10½c. per pound.

Sago Flour—Demand was slow. Supplies on spot were quoted at 7c. to 7¼c. per pound, as to quantity and seller. July shipments were named at 6¼c. per pound, ex-dock.

Tapioca Flour—Conditions in this market remained steady, reflecting the firmness in Brazil. Stocks on the spot were maintained at former levels. High grade was quoted at 10c. per pound; mediums, 8¼c. to 9½c., as to quality and low, 7c. to 7¼c., ex-warehouse, according to quantity.

Tanning Materials

Chestnut Extract—Small lots were reported in light demand for actual needs. Prices were unchanged and more or less nominal.

Cutch—Inquiry for replacements was moderate. Offers for shipment were still limited and well held at former quotations.

Mangrove Bark—Business was reported restricted to South America, owing to the scarcity of available stocks for shipment from Africa.

Myrobalans—Tanners inquiry for replacements was for limited quantities for immediate shipment. Prices were unchanged and steady. Imports totaled 334 bags at New York last week.

Quebracho Extract—Consuming inquiry was light, chiefly for moderate quantities for immediate shipment. Although business was slow, shipments were unchanged and well held.

Valonia—Primary market was reported steady at prevailing levels for shipments of cups. Buying interest was practically nil. Imports of extract was reported at 915 bags at New York last week.

Wattle—Tanners limited interest to an occasional shipment of bark and extract for actual requirements. Primary market was unchanged and steady. Bark arrivals totaled 2,766 bales and 3,557 bags of extract at New York last week.

For Late Market Developments, See Page 4

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Drugs and Fine Chemicals

With the exception of a ¼ cent reduction in the price of castor oil, price movements last week were confined to small volume items. Para-aminosalicylic acid was quoted on a lower schedule and vitamin E was drastically reduced with both alphatocopherol and alphatocopherol acetate having been lowered effective July 8 by $150 per kilo. The index did not change.

A new producer of synthetic vitamin A announced production based on betaionone, an ingredient of lemongrass oil and a constituent of violets. The production of synthetic vitamin A, however, is not new. There were two established producers previously in the field and one of them has been marketing the material for over a year.

Phloroglucinol was firm in price and while demand was still slow there were reported indications of improvement. The technical grade of hexamethylenetetramine was made available in bags at prices ½ cent per pound less than the barrel price. Arriving shipments of castor beans were small last week. Antibiotics were firm in price under a sustained strong demand, while demand for sulpha drugs was reported lower.

Methanol and formaldehyde were unchanged with the volume of business continuing to run considerably below levels of a year ago. Ethyl alcohol appeared to be holding to its new higher price schedule established July 1. Demand for ketone and ester solvents continued slow and a steady price position was maintained.

The drug market was characterized by notable price stability at the midyear, and this also applied to most organic chemicals. With many plants closing down for vacation periods, it was expected that the general business volume for July and August would be lower than in recent weeks. An upward trend in demand was expected in most quarters in the early Fall months.

Acetanilide—The production of both technical and USP material was released by the Tariff Commission for the month of April, showing a combined total of 729,711 pounds. This was less than the 911,913 pounds produced in March, but considerably better than the output of January and February. Prices were firm at the midyear, and supplies were reported as abundant.

Acetone—April production of acetone was reported by the Tariff Commission as 33,683,324 pounds, off some two million pounds from the March and February figures and some ten million pounds below the January output. These early figures reflect the decline in consuming demand which began in early Spring and have continued ever since. Demand was reported as still slow, but to some sections of the industry shipments were reported as keeping up well to recent levels. Pricewise the acetone market was very firm, and there were no indications of any changes likely to develop during the present quarter.

Acid, Acetylsalicylic—This market was holding steadily to former price schedules. Demand was generally slow, with ample stocks available for prompt shipment. Production during the month of April stood at 803,773 pounds, compared with 609,256 pounds in March and over a million pounds per month in January and February. A seasonal decline in demand and in production were expected for the present period.

Acid, Para-aminosalicylic—The price of this material was reduced effective July 1 to a lower price schedule, in which 100-pound quantities on an f.o.b. basis were reduced to $14.15 per pound. The announced schedule of a major producer listed 1,000 pound quantities at $14 per pound, 500-pound lots at $14.05, 100-pound lots at $14.15, and 25-pound lots at $14.30. This gave a price spread between the quotations of different producers with quotations ranging as high as $15 per pound for 100 pounds and over, $15.15 for 50-pound lots, and $15.35 for 25-pound lots. On the basis of general quotations, the current price reduction averages about 85c. per pound.

Alcohol—Prices established July 1 were holding firm. Demand was expected to be notably slow during July and August because of heavy consumer inventories.

Alphatocopherol and Acetate—Both the alcohol and the acetate of pure vitamin E made synthetically have been reduced in price $150 per kilo, bringing quantity prices to $450 per kilo. The price schedule of a major producer quoted both items in lots of 100 grams or over at 45c. per gram, 5 to 99 grams at 48c. per gram, and 1 gram quantities at 55c. The synthetic acetate as well as the alcohol were expected to show an increased demand following this price reduction, which it was said, was made possible through economies in bulk manufacture.

Amyl Acetate—Production of this ester solvent was on the downward trend in line with the lessened demand situation on ester solvents generally which developed the past Spring. April output was reported by the Tariff Commission as 436,318 pounds representing the combined total of 90 percent amyl and isoamyl acetate, compared with the previous month's production of 1,141,420 pounds.

Butyl Alcohol—This solvent maintained a firm market position at the midyear, and there was no indication of any price changes likely to develop during the third quarter. Production of primary normal alcohol in April amounted to 8,607,646 pounds.

Castor Oil—Castor oil was reduced ¼c. per pound last week, bringing the new price schedule of refined and deodorized material to 19¾c. per pound in drums, carlots, and 20¼c. in less than carlot drum quantities. Meanwhile, standard USP material was listed at 17¼c. per pound in tankcars, 18¼c. in drum carlots, and 18¾c. in less than carlot drum lots. Castor beans were still quoted at $107 per long ton, with offerings very spotty.

Arrivals of castor beans last week amounted to 3,616 bags, equivalent to 542,400 pounds, compared with 7,519 bags or 1,127,850 pounds the previous week, and 31,209 bags or 4,681,350 pounds during the corresponding week of 1948.

Total arrivals since January 1 of this year amounted to 938,557 bags, equivalent to 140,783,550 pounds, compared with 678,795 bags or 101,819,250 pounds during the corresponding period of last year.

Shipment of castor seeds and oil from Brazil to the United States since 1936 in terms of tons was as follows:—

	Tons	
	Seeds	Oil
1936	102,000	393
1937	119,916	202
1938	125,874	139
1939	125,272	583
1940	117,495	1,214
1941	221,813	4,506
1942	116,169	2,587
1943	155,685	12,629
1944	145,477	7,916
1945	150,447	5,844
1946	99,419	6,718
1947	168,543	6,266
1948	163,515	5,212

Formaldehyde—April showed a drop in output of 37 percent formaldehyde solution, being reported by the Tariff Commission as 36,619,300 pounds, compared with March production of 42,701,699 pounds.

Prices were steady, and there appeared to be no immediate prospect of any change. The rather unorthodox distributive and price patterns which developed in the industry last December had by now become well established and was felt to be firm.

In some sections there was a feeling of expected stronger demand beginning early in the last quarter. This optimistic view, however, was not universal as others tended to take a rather bleak view of the situation, feeling that there would be only a mild spurt of increased business of short duration. The Spring rise in business did not develop. Business for the balance of the Summer was expected to be slow because of plant shutdowns for vacations. The feeling was expressed that if the upsurge of business did not develop promptly in the Fall, it would be missed entirely. However, there were many factors in the market which would indicate a Fall improvement in business in organic chemicals, but which might well not affect inorganics.

Glycerin—The feeling was generally held that refined glycerin prices would hold firm for the balance of the year.

For Late Market Developments, See Page 4

Market Trends

Prices Advanced

None

Prices Reduced

Acid, para-aminosalicylic, 85c. per lb.
Alphatocopherol, $150 per kilo.
Acetate, $150 per kilo.
Castor oil, medicinal, ¼c. per lb.

Comparative Price Indexes

(100=August 1, 1914)

Last week	Prev. week	Last month	Last year
262.8	262.8	264.1	260.2

(For Current Prices see Page 9)

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Crude material was somewhat tight due to heavy shipment abroad in the closing weeks of June. Closing of plants for vacation periods was likely to make the balance between supply and demand somewhat delicately balanced with the possibility of a mild shortage sometime during the month. German buying was essentially discontinued at the end of the second quarter because of heavy German consumer inventories. Sweden was still in the market for moderate quantities. Italy's requirements were limited. Accordingly, the supply situation viewed over the next three months appeared to be quite ample, with the supply position likely to show improvement with the approach of Fall due to curtailed shipments abroad and increased synthetic production. Imports last week amounted to 173,321 pounds.

Hexamethylenetetramine—This material of the technical grade was currently available in bags at ½c. per pound under the price schedule on shipments in barrels. This made 1,000-pound quantities of technical material packaged in bags 25c. per pound, and small quantities at 26c. per pound.

Methanol—The demand for this material which in early Spring showed a notable decline was still off very considerably. Prices were holding firm, and no changes were expected. Evidence of the decline in demand was reflected in the April production figure of 68,072,234 pounds of synthetic alcohol, compared with 93,210,213 pounds as the revised March figure.

The reason for the currently slow market in methanol lay primarily in the drop in demand for antifreeze and the slump in the plastics industry. The latter industry being a large consumer of formaldehyde condensation resins, there was consequently less demand for methanol from which formaldehyde is made. A marked upturn in demand this September was expected in most quarters, particularly from ultimate plastic industrial consumption. The usual heavy demand for antifreeze this Winter was expected to be appreciably lighter because of heavy inventories carried over in distributive channels from last year as a result of mild weather conditions. Natural methanol production in April stood at 1,105,102 pounds.

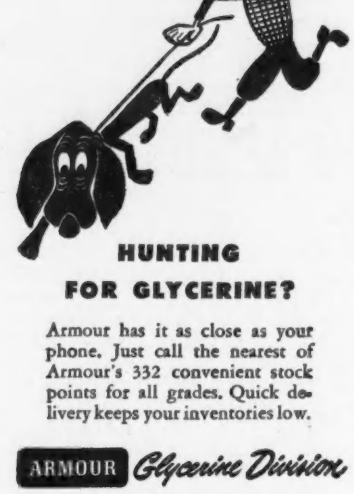
Milk Powder—Prices were unchanged last week. CCC purchases at parity prices amounted to 8,515,268 pounds of spray process skimmed milk powder and 7,041,094½ pounds of roller process material.

Penicillin and Salts—Demand and production of penicillin continued heavy. Prices were firm on bulk salts. April production of penicillin and its various salts amounted to 11,364,759 million Oxford units, compared with 9,622,418 million Oxford units in March.

A fortified aqueous procaine penicillin was currently available in bulk quantities in distributors unlabeled bottles. The new product was said to be designed for injection at twenty-four-hour intervals and to be effective through both a high initial and a highly sustained blood level.

Phenobarbital—This material was in limited demand under a firm price structure. Production of the acid and its salts in April totaled 25,591 pounds, compared with 44,151 pounds during March. Demand was expected to be seasonally off until the Fall months.

Phloroglucinol—While there were on the market some price quotations which were higher than most listings, the general price pattern seemed to be $4.50 per pound for the commercial grade in quantities of 100 pounds or more, $10 per pound for the technical grade in lots of



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Heads Pharmaceutical Firm

B. F. Ascher is president of B. F. Ascher & Co., Kansas City, Mo., recently organized to manufacture and distribute ethical pharmaceuticals. He was formerly vice-president and director of sales of George A. Breon & Co. Other officers of the new organization are:—vice president and secretary, M. M. Ascher, and assistant secretary, R. W. Crimm.

Warner Now Making Synthetic Vitamin A

William R. Warner & Co., pharmaceutical manufacturer, New York, has commenced production of synthetic vitamin A capsules. Said to be the smallest gelatin capsules of vitamin A ever manufactured, with 25,000 USP units per capsule, the product is claimed to completely free from any fishy odor or taste. Complete identity between the natural and the synthetic product is said to have been established by chemical, physico-chemical and biological methods.

German Pharmaceutical Processing Data Offered

Publication of a large number of manufacturing processes for drugs, drug intermediates, and fine chemicals produced by I. G. Farbenindustrie and Schering A. G. has been announced by Research Information Service, 509 Fifth avenue, New York. In addition to the translated manufacturing instructions, the company is offering a number of translations of interesting research reports in the pharmaceutical field.

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100 or more pounds, and $13.75 to $14 per pound for the CP grade in lots of 50 to 100 pounds. These prices were on a works basis in some cases and on a freight allowed basis in others. While demand was slow in line with chemicals generally, there were reported signs of improvement in this item.

Streptomycin — April production of streptomycin was reported by the Tariff Commission as 4,497,262 grams, compared with 6,232,938 grams in March. Prices on the various salts were unchanged from previous levels and demand was well sustained.

Sugar—Primary sugar distribution for the week ended June 25 amounted to 177,227 short tons, compared with 178,941 tons the previous week. This brought the total so far this year to 3,421,693 tons, compared with 3,134,067 tons for the corresponding period of last year.

A producer of refined sugar announced a price cut of five points setting a price of 7¾c. per pound for July shipments of bulk refined material. Drought conditions in some sections of the country were reported as having curtailed the crop on berries and certain other items to a point where sugar demand was likely to suffer.

Vitamins—Production of ascorbic acid and its salts in April was reported as 97,128 pounds, while the Tariff Commission for the same month reported output of pyridoxine as 1,088 pounds, and thiamin hydrochloride as 16,360 pounds.

Vitamin A—A new producer of synthetic vitamin A announced production of the material from betaionone, an ingredient of lemongress oil and also present in violets. The production of synthetic vitamin A, however, is not new. It has been on the market for over a year and has been rather heavily advertised in recent months because of increased production capacity and more ready availability. In addition to the new production just reported there are two other established manufacturers.

Trade Briefs

American Optical Company is planning the construction of a major addition to its Southbridge, Mass., plant at a cost of approximately $1,000,000.

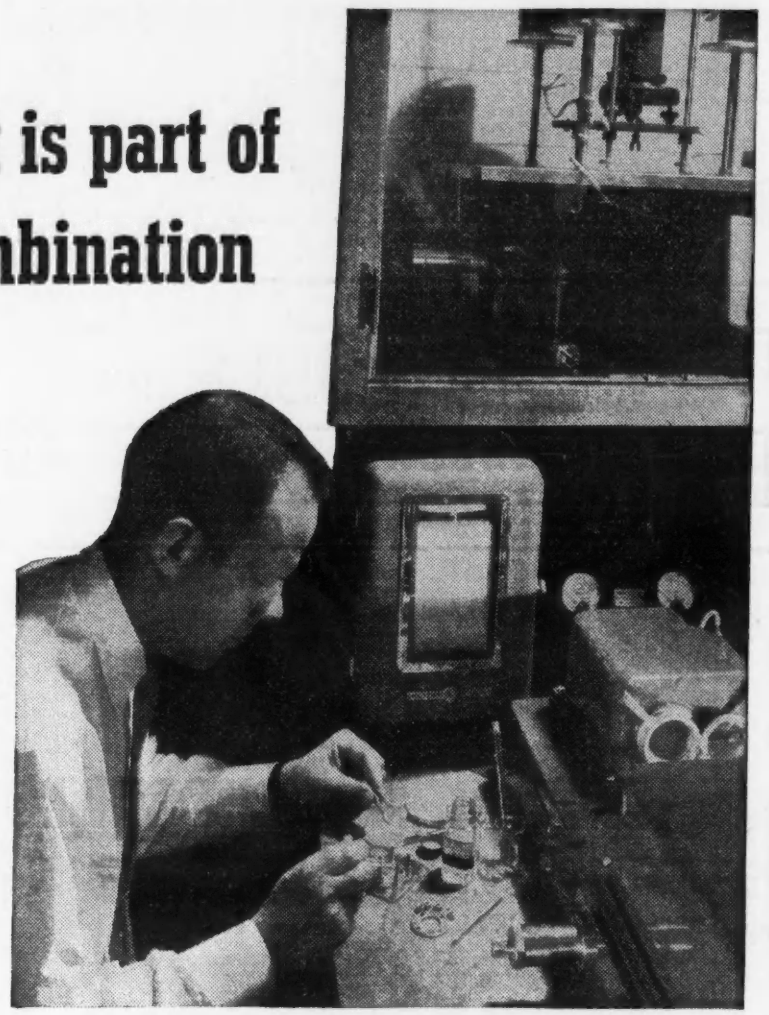
Dr. Ernest H. Volwiler, executive vice-president of Abbott Laboratories, North Chicago, Ill., was recently awarded an honorary degree of doctor of science by Northwestern University.

Paul W. Wilcox, director of pharmaceutical research of Sharp & Dohme, Inc., is one of sixteen members of a teaching staff selected by the Unitarian Service Committee for its medical mission to Germany.

Fisher Scientific Company, Pittsburgh, has developed a new forced draft oven for general laboratory use that is said to perform drying operations in one-half to one-third the time required with a conventional gravity type oven.

Manton Gaulin Manufacturing Company, maker of homogenizers, Everett, Mass., has finished construction of an addition to its factory which adds about 15,000 feet of floor space. The new structure, which connects with the old factory, is of brick and reinforced concrete.

Measurement is part of the DPI Combination



THIS DPI technician is preparing a product specimen for analysis. The apparatus before him is an infrared spectrophotometer. It will enable him to determine properties and values which would be otherwise unknown.

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Vitamin E

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Type VI Distilled Vitamin E Concentrate — *d*, alpha tocopheryl acetate—highly efficacious form of vitamin E at lowest cost in International Units of any commercial source. Preferred for high dosage vitamin E products.

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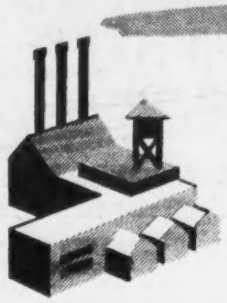

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Medicinal Chemicals 1948 Output and Sales Reported

Production and sales of medicinal synthetic organic chemicals during 1948 have been reported by the United States Tariff Commission in terms of bulk medicinals.[1] A breakdown of the reported figures, in pounds, is as follows:—

CYCLIC	Production	Sales
Total	33,396,500	29,247,400
Benzenoid		
Total	25,660,800	23,538,100
Acetanilid	194,300	231,100
Acetylsalicylic acid (Aspirin)	10,921,500	10,839,800
Acetyltannic acid (Tannigen)		
(Tannyl acetate)	1,000	1,000
p-Aminobenzoic acid and sodium salt	22,900	24,500
p-Aminobenzoic acid derivatives, total	231,000	215,900
Ethyl p-aminobenzoate (Benzocaine) (Anasthesine)	53,200	54,700
Procaine hydrochloride	158,200	143,600
All other	19,600	17,600
Benzoic acid salts (medicinal grade only)	5,400	6,100
Benzyl alcohol (medicinal grade only)	59,300	52,000
Bismuth subgallate	45,700	50,000
Bismuth subsalicylate	110,300	107,000
Desoxyephedrine base and hydrochloride	6,500	3,700
Dyes, medicinal	45,000	35,500
p-Naphthyl benzoate	10,900	13,200
Neoarsphenamine	4,700	.....
Sulfa drugs, total	2,659,800	2,777,300
N-Acetylsulfanilamide (Sulfacetamide)	34,700	20,700
Sulfathiazole	866,300	1,003,800
All other	1,758,600	1,752,800
Thymol iodide	5,800	.....
All other benzenoid medicinals	11,336,700	9,181,000
Alicyclic and Heterocyclic		
Total	7,735,700	5,709,300
Amino acids	5,300	600
Antipyrene salicylate	4,100	4,000
Barbituric acid derivatives, total	672,700	449,100
5,5-Diethylbarbituric acid, sodium salt	21,100	14,100
5-Ethyl-5-phenylbarbituric acid (Phenobarbital) (Luminal)	279,800	299,900
5-Ethyl-5-phenylbarbituric acid, sodium salt (Phenobarbital sodium)	30,700	33,100
All other	341,100	102,000
Bile acids and salts, total	209,200	74,800
Dehydrocholic acid	17,800	10,900
All other	191,400	63,900
Caffeine (natural and synthetic)	1,456,200	1,006,100
Caffeine derivatives, total	63,400	.....
Caffeine citrate	57,700	50,900
Caffeine sodium benzoate	7,100	6,000
All other	600	.....
Camphosulphonic acid and salts	2,000	1,300
5,7-Di-iodo-8-hydroxyquinoline	20,200	.....
8-Hydroxyquinoline base and derivatives, total	9,000	12,300
8-Hydroxyquinoline-5-sulphonic acid	[2]	500
All other	9,000	11,800
7-Iodo-8-hydroxyquinoline-5-sulphonic acid (Yatren acid) and salt	7,000	7,500
Penicillin and derivatives, total[3]	272,600	137,500
Penicillin	151,200	76,400
Penicillin, potassium	28,600	14,200
Penicillin, procaine	63,600	21,000
Penicillin, sodium	25,100	21,600
All other	4,100	4,300
Streptomycin	89,700	67,500
Theobromine derivatives	137,400	139,600
Theophylline (1,3-Dimethylxanthine), base and derivatives, total	419,400	236,300
Theophylline base	221,500	164,600
Theophylline ethylenediamine	181,100	68,200
All other	16,800	3,500
Vitamins, total	1,361,700	1,446,800
B_1 (Thiamin chloride and hydrochloride)	189,600	171,300
B_2 (Riboflavin, for human and for animal poultry consumption	13,040	113,000
B_6 (Pyridoxine)	10,900	9,400
D, (Irradiated ergosterol) (Viosterol)[4]	42,400	32,100
Niacin, niacinamide and hydrochloride	1,133,800	1,092,800
All other	54,600	28,200
All other alicyclic and heterocyclic medicinals	2,783,800	2,063,800
Acyclic		
Total	6,851,100	5,948,400
Acetylcholine chloride	1,100	1,200
Amino acids, total	282,700	254,400
l-Cystine	300	300
l(+)Glutamic acid	153,200	128,100
All other	129,200	126,000
Amyl nitrite (Isoamyl nitrite)	1,100	800
Calcium levulinate	10,200	17,400
Calcium succinate	152,400	137,400
Choline chloride	.....	24,100
Methyl iodide	3,000	2,700
Silver preparations, organic colloidal	.....	7,700
tert-Trichlorobutyl alcohol (Chloretone) (Chlorobutanol)	16,100	21,700
Vitamins, total	1,045,600	825,100
C (Ascorbic acid and sodium salt)	955,600	768,200
All other	90,000	56,900
All other acyclic medicinals	5,338,900	4,655,900
Grand total	40,247,600	35,195,300

[1] Represents statistics on production and sales for bulk medicinals only. The statistics do not include the production of finished preparations, such as tablets, capsules, ampoules, etc., which are manufactured from bulk medicinals.

[2] Included in "All other 8-hydroxyquinoline base and derivatives."

[3] Penicillin and derivatives, in terms of billion Oxford units:

	Production	Sales Quantity
Total	159,667,400	85,088,000
Penicillin	90,501,500	47,588,200
Penicillin, potassium	19,488,400	9,671,600
Penicillin, procaine	28,570,000	9,615,400
Penicillin, sodium	18,039,000	15,555,700
Penicillin, all other	3,068,500	2,657,100

[4] Production totaled 11,588.8 billion U.S.P. units; sales totaled 8,426.5 billion units.

Note.—The statistics on sales of bulk medicinals in 1948 do not include the quantity and value of interplant or interdepartment transfers as did the statistics for 1947 and earlier years. Before 1948 the interplant or interdepartment transfers probably accounted for about 15 percent of the total of sales plus transfers.

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Allen, Meiling Take Office As NME Medical Div. Head

Dr. Raymond B. Allen, president of the University of Washington, Seattle, and Dr. Richard L. Meiling, of the College of Medicine of Ohio State University, Columbus, were sworn into office as director and deputy director, respectively, of the NME medical services division at a ceremony in the office of Secretary of Defense Louis Johnson on July 6.

Dr. Allen will remain as director of medical services for three months to initiate organization of the new division, which will coordinate operations of the medical services of the three military departments and other NME agencies. On October 1, Dr. Allen will return to the University of Washington and Dr. Meiling will be appointed Director. Dr. Allen will then resume his place on the NME armed services medical advisory committee, of which he was an original member.

ECA Reports Purchases Totaling $53,397,364

The Economic Cooperation Administration announced on July 6 that it had negotiated to date with Marshall plan countries for the purchase of critical materials amounting to a total equivalent to $53,397,364.

These materials are required by the United States as a result of deficiencies or potential deficiencies in its own resources. They include such commodities as rubber, quinidine, graphite, kyanite, cobalt, lead concentrate, palm oil and sperm oil. Of the total amount $39,484,824 represents outright purchases. The remainder of $13,912,540 represents signed contracts for future deliveries from ECA approved projects of participating countries. A number of negotiations are pending for the purchase of additional materials needed by this country, ECA said.

ACS Section Elects

Dr. William K. Noyce, associate professor of chemistry, has been elected chairman of the University of Arkansas section of the American Chemical Society. He succeeds Dr. W. W. Grigorieff, director of the Institute of Science and Technology of the university.

Prof. Edward S. Amis was chosen vice-chairman, and Granville A. Billingsley, resident chemist at the United States Geological Survey at the university, was re-elected secretary-treasurer of the section. Dr. Edgar Wertheim, head of the department of chemistry at the university, was named to the society's national council, with Dr. David S. Burgess, professor of chemistry at the Institute of Science and Technology, as alternate.

Glass Container Shipments Up

The total shipments of narrow-neck glass containers in March were 4,347,101, as compared with 3,625,558 in February, according to the Bureau of Census. In this category the amount used for medicinal and health purposes was 929,048 in March, against 920,934 in February, chemicals, 486,331 in March, against 455,498 in February; toiletries, 391,519 in March, against 314,787 in February.

The total shipment of wide-mouth glass containers in March was 2,581,763, as compared with 2,403,668 in February. In this category, the amount used for medicinal and health was 272,853 in March, against 239,202 in February, chemicals, 76,231 in March, against 84,717 in February, toiletries, 84,705 in March, against 130,092 in February.

Trade Briefs

Red Star Yeast & Products Company, Milwaukee, has appointed James A. Kirkman, jr., general sales manager and director of advertising.

Dr. Alan F. Clifford has been named assistant professor of chemistry at Illinois Institute of Technology, effective September 1.

Robert S. Aries, consulting engineer and adjunct professor of chemical engineering at the Polytechnic Institute of Brooklyn is on a business tour of Mexico, Guatemala, Jamaica and Cuba.

Dr. Philip B. Hawk, founder and president of Food Research Laboratories, Inc., Long Island City, N. Y., was recently presented with an honorary degree of doctor of science by Wesleyan University.

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Imports at United States Ports

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ABRIL WAX—5 bgs, Distributing & Trading Co, American Miller, London
ALMOND OIL—12 cs, Magnus, Mabee & Reynard, Inc, Excambion, Marseilles
AMMONIUM CHLORIDE—100 cs, Lo Curto & Funk Co, Parthia, Liverpool
AMYRIS OIL—1 dm, Ungerer & Co, Doros, Port au Prince
ANILIN COLORS—3 dms, Arnold Hoffman Co, American Attorney, Rotterdam
6 dms, Carbic Color & Chemical Co, Livarden, Havre
27 cyls, Sandoz Chemical Works, Executor, Genoa
ANISE—[illegible] bgs, Agwiprincess, Vera Cruz
ANTIMONY ORE—280 bgs, Wah Chang Trading Co, Rita Maersk, Puerto Cortes
ARABIC GUM—409 bgs, Brown Bros-Harriman Co, Mahenge, Port Sudan
153 bgs, Irving Trust Co, Mahenge, Port Sudan
256 bgs, Brown Bros-Harriman Co, Mahenge, Port Sudan
500 bgs, Thurston & Braidich, Maidan, Port Sudan
487 bgs, Paul A Dunkel & Co, Nieuw Amsterdam, Rotterdam
250 bgs, T M Duche & Sons Co, Maidan, Port Sudan
250 bgs, S B Penick & Co, Maidan, Port Sudan
500 bgs, Thurston & Braidich, Maidan, Port Sudan
250 bgs, Bluefries New York, Leerdam, Antwerp
ARSENIC—111 bbls, Cia Minera Asarco, Agwiprincess, Tampico
ASBESTOS FIBER—5,000 bgs, Johns Manville Co, African Sun, Capetown
1,800 bgs, New York Trust Co, Robin Kettering, Lourenco Marques
BALSAM—15 dms, Cape Avinof, La Libertad
3 dms, Wessel, Duval & Co, Cape Avinof, La Libertad
11 dms, S B Penick & Co, Sheridan, Manaos
BEESWAX—22 bgs, J A Davies Co, Exbrook, Izmir
13 bgs, Cape Avinof, La Libertad
81 bgs, Paul & Stein Inc, Steel Artisan, Djibouti
41 bgs, Geck Trading Co, Rita Maersk, Puerto Barrios
36 bgs, E Vadillo Ruiz Co, Copaipo, Santiago
78 bgs, D Steengrafe Co, Copaipo, Santiago
31 bgs, Merchants National Bank, Doros, Port au Prince
8 bgs, Poons & Co, Suzanne, Ciudad Trujillo
16 bgs, Curacao Trading Co, Kathryn, Ciudad Trujillo
BERYL ORE—295 bgs, Associated Metal & Minerals Corp, Exbrook, Casablanca
BISMUTH—119 cs, Philipp Bros, Topusko, Rijeka
BONE MEAL—1,000 bgs, Parthia, Liverpool
BUCHU LEAVES—16 bls, S B Penick & Co, African Rainbow, Capetown
5 bls, S B Penick & Co, African Sun, Capetown
48 bls, Lo Curto & Funk Co, Robin Kettering, Capetown
BUTTONLAC—250 bgs, Charles H Timms Co, Maidan, Calcutta
200 bgs, Gillespie-Rogers-Pyatt Co, Maidan, Calcutta
CAFFEINE—18 dms, H A Gogarty & Co, Claiborne, Antwerp
CARNAUBA WAX—112 bgs, Fredrick Henjes Jr Co, Sheridan, Fortaleza
111 bgs, William Diehl & Co, Sheridan, Fortaleza
33 bgs, William M Allison & Co, Sheridan, Fortaleza
CASTORBEANS—1,672 bgs, Garnac Grains Co, Loide Venezuela, Santos
1,570 bgs, Spencer Kellogg & Sons, Inc, Sheridan, Fortaleza
374 bgs, Spencer Kellogg & Sons, Inc, Doros, Port au Prince
CHROME ORE—5,610,425 lbs, E J Lavino & Co, Robin Kettering, Lourenco Marques
1,131,490 lbs, Frank Samuels Co, Robin Locksley, Lourenco Marques
5,603,180 lbs, E J Lavino & Co, Robin Locksley, Lourenco Marques
CINNAMON LEAF OIL—142 dms, Spence & Young Co, American Miller, London
QUILLS—100 bls, Wessel, Duval & Co, Maidan, Colombo
CITRONELLA OIL—9 dms, Norda Essential Oil & Chemical Co, Fernhill, Colombo
100 dms, A Maschmeyer Co, Rita Maersk, Puerto Barrios
10 dms, Farmers Chemical Co, Rita Maersk, Puerto Barrios
5 dms, Ungerer & Co, Rita Maersk, Puerto Barrios
37 dms, Fruit Dispatch Co, Rita Maersk, Tela
COD OIL—400 dms, Atlas Refining Co, Fort Townshend, St Johns
50 dms, E F Drew Co, Fort Townshend, St Johns
COPAIBA BALSAM—12 dms, Fritzsche Bros, Inc, Sheridan, Manaos
CUMIN SEED—220 bgs, Graig Stanton Co, Exbrook, Casablanca
571 bgs, Forex Commodities Corp, Steel Artisan, Khorramshar
250 bgs, C M Van Sillevoldt Co, Steel Artisan, Khorramshar
321 bgs, Mac Van Pels, Steel Artisan, Khorramshar
245 bgs, Steel Artisan, Khorramshar
100 bgs, Shazizadeh, Steel Artisan, Khorramshar
191 bgs, Forex Commodities Corp, Steel Artisan, Khorramshar
230 bgs, D Hecht Co, Steel Artisan, Khorramshar
195 bgs, Steel Artisan, Khorramshar
DOGGRASS ROOT—40 bls, National City Bank, Leerdam, Antwerp
DRUGS—61 bgs, Peek & Velsor, Inc, Niew Amsterdam, Rotterdam
DYESTUFFS—2 dms, Meadows Wye Co, Claiborne, Hamburg
ERGOT—72 bgs, F W Berk & Co, American Miller, London
ESSENTIAL OILS—7 dms, Dodge & Olcott, Inc, Excambion, Marseilles
2 dms, Antoine Chiris, Excambion, Marseilles
2 dms, Naugatuck Aromatics Corp, Excambion, Marseilles
5 dms, Bertrand Freres, Excambion, Marseilles
106 dms, Pierre De Saurel, Seville
1 cs, P Robertet Co, Pierre De Saurel, Barcelona
15 dms, Agwiprincess, Vera Cruz
EUCALYPTUS OIL—60 dms, Norda Essential Oil & Chemical Co, American Miller, London
FENUGREEK SEED—50 bgs, S B Penick & Co, Exbrook, Casablanca
FISHLIVER OIL—61 dms, Consumer Import Co, General Guisan, Yokohama
FUEL OIL—105,000 bbls, Esso Standard Oil Co, Kittanning, Aruba
10,000 bbls, Asiatic Petroleum Corp, Santa Rosa, Curacao
62,440 bbls, Paragon Oil Co, Julesburg, Curacao
138,000 bbls, Esso Export Corp, G Harrison Smith, Aruba
93,000 bbls, Esso Export Corp, Esso Bolivar, Aruba
90,710 bbls, Asiatic Petroleum Corp, Adellen, Curacao
GALLNUTS—34 bgs, Sinex Corp, Algonquin, Rotterdam
GELATIN—25 cs, Coignet Chemical Works, Mahenge, Antwerp
GLUESTOCK—105 bls, Manufacturers Trust Co, Sheridan, Recife
GLYCERIN—173,321 bls, Procter & Gamble Co, Seatrain Texas, Havana
GRAINS OF PARADISE—68 bgs, The Meer Corp, Excambion, Marseilles
GRAPHITE—500 bgs, Asbury Graphite Mills, Fernhill, Colombo
250 bgs, J Dixon Crucible Co, Fernhill, Colombo
250 bgs, Commercial Acceptance Corp, Robin Locksley, Mombasa
GUM—350 bgs, Steel Artisan, Khorramshar
600 bgs, S B Penick & Co, Steel Artisan, Kharramshar
200 bgs, Khosrowshahi & Co, Steel Artisan, Kharramshar
GYPSUM, CRUDE—9,086 tons, National Gypsum Co, Dingwall, Little Narrows
8,405 tons, National Gypsum Co, Nidarholm, Dingwall
2,930 tons, Newark Plaster Co, Lake Coperas, Walton
224 bgs, Whittaker, Clark & Daniels, Parthia, Liverpool
IRISH MOSS—1 bl, R J Prentiss & Co, Pierre De Saurel, Algiers
IRON OXIDE—10 cks, James H Rhoades Co, Parthia, Liverpool
KYANITE ORE—20 tons, Golwynne Chemical Corp, Robin Kettering, Mombasa
599 tons, Golwynne Chemical Corp, African Rainbow, Mombasa
LEMON OIL—300 cs, Bank of Manhattan Co, Exbrook, Messina
24 cs, Ida Bakke, Messina
20 cs, Chase National Bank, Ida Bakke, Messina
50 cs, Corn Exchange Bank, Ida Bakke, Messina
LICORICE EXTRACT—80 cs, E Somekh, Excambion, Beirut
LIME OIL—1 dm, Doros, Port au Prince
LINSEED OIL—13 dms, John Holt Co, Washington, Havre
LOCUSTBEAN GUM—500 bgs, Guaranty Trust Co, Mahenge, Antwerp
100 bgs, Meyerman's Products Corp, Mahenge, Antwerp
250 bgs, Executor, Genoa
50 bgs, American Key Products Corp, Executor, Genoa
50 bgs, William M Allison & Co, Executor, Genoa
LOGWOOD EXTRACT—40 cks, American Dyewood Co, Cape Avinof, Santa Marta
MAGNESIUM TRISILICATE—50 cs, Reheis Co, Parthia, Liverpool
MANDARIN OIL—10 cs, Credit Suisse, Ida Bakke, Messina
MASTIC GUM—10 cs, Peek & Velsor, Inc, Exbrook, Salonika
20 cs, Irving Trust Co, Ida Bakke, Piraeus
MEDICINAL HERBS—27 bls, S B Penick & Co, Maidan, Port Sudan
8 cs, R J Prentiss & Co, Leerdam, Antwerp
MERCURY PHENATE—12 dms, Charles A Redden Co, Parthia, Liverpool
MICA—480 cs, Asheville Schoonmaker Mica Co, Maidan, Calcutta
192 cs, Habers Export Corp, Maidan, Calcutta
29 cs, James F Garneau Co, Maidan, Calcutta
30 cs, Maidan, Calcutta
131 cs, Cornelius & Suhr Co, Maidan, Calcutta
185 cs, Otto Gerdau Co, Maidan, Calcutta
277 cs, Asheville Schoonmaker Mica Co, Maidan, Calcutta
20 cs, Whittaker, Clark & Daniels Co, Maidan, Calcutta
240 cs, Brown Bros-Harriman Co, Maidan, Calcutta
77 cs, Eugene Munsell Co, Maidan, Calcutta
75 cs, James F. Garneau Co, Maidan, Calcutta
321 cs, United Mineral & Chemical Co, Maidan, Calcutta
163 cs, Gillespie-Rogers-Pyatt Co, Maidan, Calcutta
515 cs, James F. Garneau Co, Maidan, Calcutta
100 cs, Schwab Bros, Maidan, Calcutta
82 cs, Western Hemisphere Raw Materials Corp, Bowmonte, Rio de Janeiro
18 cs, Colonial Trust Co, Bowmonte, Rio de Janeiro
5 cs, Sylvania Electrical Products Corp, Bowmonte, Rio de Janeiro
MILLERS WEED—40 bls, R J Prentiss & Co, Pierre De Saurel, Algiers
MOLYBDENITE—505 dms, J W Hampton Jr & Co, General Guisan, Kobe
61 dms, Chase National Bank, General Guisan, Kobe
MYROBALANS—334 bgs, First National Bank of Boston, Mahenge, Mormungo
NAPHTHALENE—1,250 bgs, Associated Metal & Mineral Corp, Vibeke Maersk, Rotterdam
2,494 bgs, Charles Page Co, Vibeke Maersk, Rotterdam
NUTMEGS—434 bgs, Internatio Rotterdam Co, Fernhill, Batavia
NUX VOMICA—589 bgs, Bankers Trust Co, Steel Age, Saigon
OIL—500 dms, Anglo American Trading Co, Exbrook, Casablanca
OLIVE OIL—24 dms, Colivo Packing Co, Exbrook, Casablanca
24 dms, Desimone Produce Co, Exbrook, Casablanca
49 dms, Miramar Distributing Co, Exbrook, Casablanca
150 dms, J Ossola Co, Exbrook, Casablanca
ORANGE OIL—8 cs, National City Bank, Ida Bakke, Messina
PAPAIN—34 cs, The American Ferment Co, Fernhill, Colombo
37 cs, S B Penick & Co, African Rainbow, Mombasa
40 cs, Getz Import Corp, African Rainbow, Mombasa
29 cs, National City Bank, African Rainbow, Tanganyika
35 cs, Charles L Huisking & Co, African Rainbow, Tanganyika
187 cs, National City Bank, Robin Kettering, Mombasa
30 cs, S B Penick & Co, Robin Kettering, Mombasa
41 cs, P O Hoffman Co, Robin Kettering, Mombasa
75 cs, Wessel, Duval & Co, Robin Kettering, Mombasa
20 cs, Robin Kettering, Tanganyika
PEPPER, BLACK—32 bgs, Freedman & Slater Co, American Miller, London
93 bgs, Freedman & Slater Co, American Miller, London
80 bgs, Nieuw Amsterdam, Rotterdam
80 bgs, Uno Shipping Co, Nieuw Amsterdam, Rotterdam
480 bgs, Bansidhar Gopaldas, Steel Age, Cochin
320 bgs, National City Bank, Steel Age, Cochin
240 bgs, Mincing Trading Co, Steel Age, Cochin
80 bgs, M Golodetz Co, Steel Age, Cochin
160 bgs, Brown Bros Harriman Co, Steel Age, Cochin
320 bgs, Manufacturers Trust Co, Steel Age, Cochin
240 bgs, Lo Curto & Funk Co, Steel Age, Cochin
160 bgs, Branstan & Co, Washington, Havre
WHITE—63 bgs, Mincing Trading Co, Excambion, Marseilles
40 bgs, Otto Gerdau Co, Gripsholm, Gothenburg
73 bgs, Arthur G Dunn, Gripsholm, Gothenburg
PEPPERMINT LEAVES—10 cs, S B Penick & Co, Excambion, Alexandria
PETROLEUM, CRUDE—15,045 tons, Esso Standard Oil Co, Gervais, Fahaheel
124,621 bbls, Esso Standard Oil Co, Esso New Haven, Puerto La Cruz
181,431 bbls, Esso Standard Oil Co, Esso Zurich, Ras Tanura
67,343 bbls, American Bitumils Co, Palmar, Amuay
POPPYSEED—300 bgs, Becker Mayer Seed Co, Exbrook, Istanbul
200 bgs, Joel Bieler Co, Exbrook, Istanbul
134 bgs, C N Van Sillevoldt Co, Exbrook, Istanbul
700 bgs, Levy & Lewis Co, Exbrook, Istanbul
100 bgs, Catz American Co, Nieuw Amsterdam, Rotterdam
65 bgs, Chase National Bank, Steel Artisan, Khorramshar
PYRETHRUM FLOWERS—1,777 bls, U S Industrial Chemicals, Inc, African Rainbow, Mombasa
500 bls, U S Industrial Chemicals, Inc, Robin Kettering, Mombasa
250 bls, Robin Kettering, Mombasa
247 bls, R J Prentiss & Co, Executor, Trieste
108 bls, U S Industrial Chemicals, Inc, Robin Locksley, Mombasa
759 bls, U S Industrial Chemicals, Inc, Robin Locksley, Dar Es Salaam
17 bls, S B Penick & Co, Rita Maersk, Puerto Barrios
QUICKSILVER—1,000 flasks, Topusko, Rijeka
QUINCE SEED—24 bgs, The Meer Corp, Steel Artisan, Khorramshar
RESIN GUM—8 bgs, The Meer Corp, Steel Artisan, Khorramshar
SAGE LEAVES—92 bls, Superintendence Co, Topusko, Rijeka
SEEDLAC—500 bgs, Mantrose Corp, Maidan, Calcutta
400 bgs, Dings & Schuster, Maidan, Calcutta
590 bgs, Steel Age, Bangkok
300 bgs, J Henry Schroeder Bank Corp, Steel Age, Bangkok
83 bgs, Steel Age, Bangkok
127 bgs, Commercial National Bank, Steel Age, Bangkok
SESAME OIL—50 dms, R Del Castillo, Rita Maersk, Salvador
SHELLAC—10 bgs, Freedman & Slater, American Miller, London
190 bgs, F H Rau & Stein Co, Nieuw Amsterdam, Rotterdam
40 cs, F H Rau, & Stein Co, Nieuw Amsterdam, Rotterdam
100 bgs, James B Day & Co, Maidan, Calcutta
550 bgs, Mac Lac Co, Maidan, Calcutta
100 bgs, Charles H Timm Co, Maidan, Calcutta
310 bgs, William Zinsser Co, Maidan, Calcutta
310 bgs, Ralli Bros, Maidan, Calcutta
150 bgs, C L Camerik Co, Maidan, Calcutta
200 bgs, Colony Import & Export Co, Maidan, Calcutta
250 bgs, Mantrose Corp, Maidan, Calcutta
700 bgs, Gillespie-Rogers-Pyatt Co, Maidan, Calcutta
250 bgs, Schwab Bros Corp, Steel Age, Bangkok
200 bgs, Reuben Import & Export Corp, Steel Age, Bangkok
SODIUM CACODYLATE—2 cs, Mallinckrodt Chemical Works, Pierre De Saurel, Marseilles
CARBONATE MONOHYDRATE CRYSTALS—20 bgs, Yardley & Co, Parthia, Liverpool
STRONTIUM CHLORIDE — 25 dms, Excambion, Marseilles
TALC—14,280 bgs, Charles Mathieu Co, Executor, Genoa
TARTAR—280 bgs, Tartaric Raw Materials Corp, Pierre De Saurel, Algiers
TARTARIC ACID—66 kegs, European Chemical Co, Exbrook, Messina
TEA WASTE—3,599 bgs, Citro Chemical Co, Maidan, Calcutta
3,471 bgs, Maywood Chemical Works, Maidan, Calcutta
480 bgs, Maywood Chemical Works, Maidan, Calcutta
970 bgs, Harrison & Crosfield, Maidan, Calcutta
THYME LEAVES—111 bgs, Seeck & Kade Co, Excambion, Marseilles
TRAGACANTH GUM—38 cs, V Simidian Co, Excambion, Beirut
495 bgs, The Meer Corp, Steel Artisan, Khorramshar
46 bgs, Dodwell & Co, Steel Artisan, Khorramshar
24 cs, Dodwell & Co, Steel Artisan, Khorramshar
TURMERIC—128 bgs, Irving Trust Co, Mahenge, Bombay
VALONIA EXTRACT — 915 bgs, International Products Corp, Exbrook, Beirut
WATTLE BARK—1,116 bls, Hammond & Carpenter, African Rainbow, Natal
556 bls, River Plate Import & Export Corp, African Rainbow, Natal
1,100 bls, River Plate Import & Export Corp, African Sun, Durban
EXTRACT—1,307 bgs, River Plate Import & Export Corp, African Sun, Durban
2,250 bgs, Vermilye Corp, Robin Kettering, Durban
WHITING—80 bgs, S B Penick & Co, American Miller, London
1,600 bgs, Nicholas H Weitzner Co, Algonquin, Antwerp
400 bgs, H J Baker & Bros, Parthia, Liverpool
WOLFRAM ORE—504 bgs, Steel Age, Bangkok

Philadelphia

June 28 to July 5

ASBESTOS FIBER—500 bgs, R J Saunders, African Sun, Lourenco Marques
600 bgs, Charles Kurz Co, African Sun, Lourenco Marques
600 bgs, Ehret Magnesia Co, African Sun, Lourenco Marques
CANARYSEED—1,363 bgs, Dicto, Istanbul
CHROME ORE—5,000 tons, Harrison Walker Refractories Co, Moratlantic, Mao Bay
3,000 tons, E J Lavino Sons, Pioneer Mail, Masinloc
CLAY—1,709 tons, English China Clay Sales Corp, Vikdal, Fowey
1,647 tons, Paper Makers Importing Co, Vikdal, Fowey
2,250 tons, Moore & Munger Co, Vikdal, Fowey
485 tons, John W Higman Co, Vikdal, Fowey
CRYOLITE—2,750 tons, Pennsalt Fruit Co, Orneborg, Ivigtut
GYPSUM—6,276 tons, U S Gypsum Co, Gypsum King, Hantsport
MANGANESE ORE—700 bgs, F B Vandegrift Co, American Importer, London
5,450 tons, E J Lavino, African Patriot, Takoradi
3,700 tons, Leonard J Buck Co, Krasnodar, Poti
3,875 tons, E J Lavino Co, Tarn, Apapa
MICA WASTE—416 bgs, Cavalier Shipping Co, Tarn, Luanda
MOLASSES—689,638 gls, Publicker Industries, Oscar S Straus, Safua La Grande
1,272,760 gls, Publicker Industries, Oscar S Straus, Havana
MYROBALANS—696 bgs, Olson Sales Agency, Exemplar, Bombay
PEATMOSS—300 bls, Selma Thorden, Uddevalla
300 bls, Keer Maurer Co, American Importer, Bremen
690 bls, C Gastmeyer Importing Co, Blydendijk, Rotterdam
220 bls, Halfmoon Trading Co, Blydendijk, Rotterdam
PEROXIDE—1,800 tons, E J Lavino & Co, Krasnodar, Poti
PETROLEUM, CRUDE—119,447 bbls, Gulf Oil Corp, Gulfkey, Puerto La Cruz
113,870 bbls, Gulf Oil Corp, Gulfmoon, Mena Al Ahmadi
105,668 bbls, The Atlantic Refining Co, Brunswick, Puerto La Cruz
109,379 bbls, Gulf Oil Corp, Gulfshore, Mena Al Ahmadi
204,189 bbls, Gulf Oil Corp, Jahra, Puerto La Cruz
110,028 bbls, Gulf Oil Corp, Gulfwing, Caripito
94,070 bbls, Socony Vacuum Oil Co, Mosli, Covenas
121,461 bbls, Atlantic Refining Co, Wolf Creek, Pamatacual
115,651 bbls, The Texas Co, Torrance Hills, Ras Tanura
123,739 bbls, Gulf Oil Corp, Gulfstream, Puerto La Cruz
123,667 bbls, Socony Vacuum Oil Co, Mill Spring, Covenas
112,379 bbls, Gulf Oil Corp, Gulfpeak, Puerto La Cruz
117,416 bbls, Atlantic Refining Co, Chyrss Jane, Ras Tanura
140,338 bbls, Atlantic Refining Co, E H Blum, Puerto La Cruz
VERMICULITE ORE—196 tons, American Vermiculite Corp, African Sun, Lourenco Marques
WATTLE BARK—2,200 bls, Olson Sales Agency, African Sun, Durban
EXTRACT—866 bgs, Olson Sales Agency, African Sun, Durban
WHITING—1,600 bgs, N H Weitzner Co, Blydendijk, Antwerp
1,000 bgs, N H Weitzner Co, American Jurist, Antwerp
ZIRCON SAND—6,100 bgs, Frank Samuel Co, Gdynia, Buenos Aires

San Francisco

June 27 to July 1

CASSIA—150 bls, H M Newhall Co, President Taft, Hongkong
140 bls, S L Jones Co, President Taft, Hongkong
CINNAMON QUILLS—75 bls, B C Ireland Co, President Monroe, Colombo
COCONUT OIL—113 tons, Pacific Vegetable Oil Co, President Taft, Manila
COPRA—500 tons, El Dorado Oil Works, Aliki, Cebu
500 tons, The Login Corp, Aliki, Cebu
FISHLIVER OIL—12 dms, California Packing Co, Laura Maersk, Keelung
GALLNUTS — 504 bgs, Mallinkrodt Chemical Works, Laura Maersk, Hongkong
PEATMOSS—3,000 bls, H M Newhall Co, Delftdyk, Rotterdam
3 bls, Balfour, Guthrie Co, Delftdyk, Rotterdam
2,500 bls, Van Waters & Rogers, Inc, Delftdyk, Rotterdam
2 bls, Bond Bros, Delftdyk, Rotterdam
1,500 bls, J D Williamson Sales Co, Delftdyk, Rotterdam
PEPPER, BLACK—160 bgs, Otto Gerdau Co, President Monroe, Bombay
80 bgs, B C Ireland Co, President Monroe, Cochin
WHITE—71 bgs, The Mincing Trading Co, Paraguay, Gothenburg
RAPESEED OIL—110 tons, Pacific Vegetable Oil Co, Laura Maersk, Hongkong
SESAME SEED—300 bgs, H M Newhall Co, Timber Hitch, Corinto
SHARK LIVERS—7 cs, Haurat Export Import Co, Timber Hitch, Puntarenas
TUNG OIL—315 tons, Murray Oil Products, Laura Maersk, Hongkong

Canadian Imports: March

Imports of specified commodities into Canada have been published by the dominion's Department of Trade and Commerce. Among the listings for March, 1949, compared with March of 1948, and the January-March period of 1949, are the following products:—

	March		Jan.-Mar.
	1949	1948	1949
Acids	$339,000	$318,000	$998,000
Animal oils, fats, greases	498,000	3,162,000	1,632,000
Cellulose products	488,000	411,000	1,336,000
Chemical products, other	3,120,000	2,857,000	9,333,000
Coal products	1,163,000	1,171,000	3,625,000
Drugs and medicines	1,252,000	1,291,000	3,332,000
Dyeing and tanning materials	849,000	843,000	2,637,000
Fertilizers	617,000	696,000	1,523,000
Gums and resins	502,000	468,000	1,427,000
Inorganic chemicals, n.o.p.	1,464,000	1,162,000	4,733,000
Paints and varnishes	1,062,000	1,365,000	3,208,000
Petroleum, crude	13,472,000	11,372,000	38,450,000
Petroleum products, n.o.p	3,379,000	5,244,000	14,171,000
Rubber and products	2,968,000	2,769,000	8,877,000
Synthetic resins and products	1,329,000	1,338,000	3,933,000
Tin	1,319,000	831,000	3,813,000
Vegetable oils	2,128,000	1,891,000	6,027,000
Wax, mineral and vegetable	109,000	182,000	518,000

Italian Imports: March

Imports of various commodities into Italy from the United States during March of this year have been reported as follows:—

Animal oils and fats, edible	$22,479
Animal and fish oils and fats, inedible	749,157
Vegetable oils and fats, edible	860,468
Sugar and related products	25,298
Naval stores, gums and resins	255,061
Drugs, herbs and roots, crude	3,086
Seeds, except oilseeds	939
Vegetable oils and fats, inedible	725,342
Petroleum and products	924,435
Nonmetallic minerals, n.e.s.	164,583
Lead and manufactures	733
Nickel and manufactures	32,880
Nonferrous ores, metals and alloys, n.e.s.	44,742
Medicinal and pharmaceutical preparations	1,055,323
Coaltar products	538,262
Chemical specialties	429,745
Industrial chemicals	203,526
Pigments, paints and varnishes	187,278
Soap and toilet preparations	9,155

Sterling-Winthrop Names McCullagh to Research Post

Sterling-Winthrop Research Institute, Rensselaer, N. Y., has appointed Dr. D. Roy McCullagh director of its biochemistry laboratories. Prior to this association he had been director of the biochemistry laboratories of the Schering Corporation, Bloomfield, N. J.

Dr. McCullagh served as director of biochemical research at the Cleveland Clinic Foundation from 1930 until 1942, and, while still with the clinic, became co-founder, technical director and vice-president of Ben Venue Laboratories, Inc. At the close of the war he was sent to Germany with the Office of Military Government and served as pharmaceutical representative on a commission to investigate the pharmaceutical industry in that country.

Andrews Named OFAR Dir.

Appointment of Stanley Andrews as director of the Office of Foreign Agricultural Relations of the Department of Agriculture was announced July 5 by Secretary of Agriculture Charles F. Brannan. Mr. Andrews, who began his new duties immediately, fills the position recently held by Dennis A. FitzGerald, director of the food and agriculture division of the Economic Cooperation Administration. Fred J. Rossiter has been acting director of the OFAR.

Mr. Andrews comes to his present position from service in Germany under General Clay as chief of the food, agriculture and forestry group of the military government for western Germany. In this position he was responsible for organizing the production and supply of food for the airlift to Berlin as well as for general food and agricultural activities for western Germany territory under United States, British and French administration.

Bodeker Drug Advances Two

Bodeker Drug Company, Richmond, Va., has appointed William W. Atkins assistant sales manager in charge of city sales and Horace M. Conyers assistant sales manager in charge of country sales. Mr. Atkins has been with the company for twenty-seven years and Mr. Conyers for thirteen years.

Trade Briefs

Milburn Company, Detroit, is marketing a new coated cotton work glove which is said to have many advantages over synthetic rubber or other plastic gloves in its chemical resistance properties.

Carl Heyel, assistant to the president of Lehn & Fink Products Corporation, has been elected president of the New York chapter of the Society for Advancement of Management.

Dr. George Urdang, of the University of Wisconsin, was selected to receive the "Schelenz Plaque" by the Society for the History of Pharmacy (Gesellschaft fur Geschichte der Pharmazie) at its meeting in Hamburg, Germany, on June 14 to 17.

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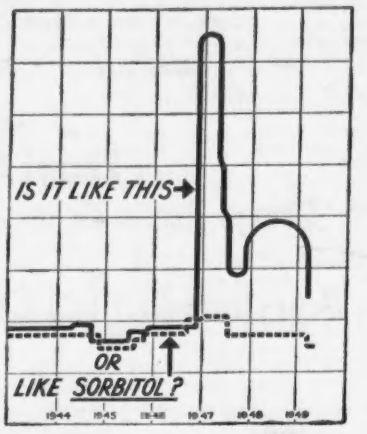

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A new complete price list of Sumner Chemicals was mailed to our regular accounts on June 6th. If you would like to receive this list as well as the technical bulletins issued from time to time, please let us know. For fine organic chemicals—
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Current Prices

—Continued from page 35

X

Xanthorrhiza root, bls.	lb.	.38 -	.30
Xylene (see Xylol).			
Xylenol, 5°-7°, ret. dms., c.l., works, frt. equald.	lb.	.31¾-	—
l.c.l., same basis	lb.	.22¼-	—
tanks, same basis	lb.	.21 -	—
45°, dms., l.c.l., frt. equald.	lb.	.24 -	—
fractions, ret. dms., c.l., same basis	gal.	1.16 -	—
l.c.l., same basis	gal.	1.19 -	—
tanks, same basis	gal.	1.05 -	—
Xylidins, mixed, dms.	lb.	.45 -	.50
Xylol, coaltar, industrial, tanks, works —			
Bethlehem, Pa.	gal.	.26 -	—
Birmingham, Ala.	gal.	.23¼-	—
Chicago district	gal.	.26½-	—
Cleveland district	gal.	.26 -	—
Dangerfield, Tex.	gal.	.27 -	—
Hamilton, Ohio	gal.	.25 -	—
Johnstown, Pa.	gal.	.24 -	—
Lackawanna, N. Y.	gal.	.24 -	—
Pittsburgh district	gal.	.23 -	—
Sparrows Point, Md.	gal.	.26 -	—
St. Louis, Mo	gal.	.23 -	—
Syracuse, N. Y.	gal.	.23½-	—
Terre Haute, Ind.	gal.	.23 -	—
Woodward, Ala.	gal.	.23¼-	—
Wyandotte, Mich.	gal.	.27 -	—
Youngstown, Ohio	gal.	.23½-	.25
Petroleum, industrial, 10°, tanks, works:—			
Albany, N. Y.	gal.	.28 -	—
Bayonne, N. J.	gal.	.28 -	—
Baytown, Tex.	gal.	.25 -	—
Chicago, Ill.	gal.	.27 -	—
Detroit, Mich.	gal.	.28 -	—
Philadelphia, Pa.	gal.	.28 -	—
Providence, R. I.	gal.	.28 -	—
Sewall's Point, Va.	gal.	.25½-	—
Wood River, Ill.	gal.	.27 -	—

Y

Yara, yara, cns.	lb.	2.00 -	2.25
Yeast brewer's dry, USP. 50 B units, per gram, 100-lb. dms.	lb.	.44 -	.46
90 B units, per gram, 100 lb. dms.	lb.	.49 -	.51
200 B units, per gram, 100 lb. dms.	lb.	.53 -	.55
300 B units, per gram, 100 lb. dms.	lb.	.57 -	.59
Yellow, barium chromate, CP, bgs., l.c.l., dlvd. N. of Tenn. and N. C., E. of Miss., including Davenport, Minneapolis, Rock Island, St. Louis, St. Paul	lb.	.32 -	—

Barium chromate yellow price differentials in other States and city zones are those for chrome yellow below.

Benzidin, bbls., dlvd.	lb.	1.60 -	1.70
Cadmium, CP, all shades, bbls., frt. alld. E. of Rockies	lb.	2.65 -	—
Lithopone, all shades, bbls., frt. alld. E. of Rockies	lb.	.25 -	—

Cadmium yellows, Los Angeles and San Francisco, ex whse. l.c. per lb. higher.

Chrome, CP, bbls., dlvd., N. Tenn. and N. C. E. of Miss., including Davenport, Minneapolis, Rock Island, tracts	lb.	.30¼-	—

Dlvd. Ala.; Fla., Ga., La., (Shreveport) 1¼c. higher; Miss., N. C., S. C., Tenn., Dallas, Tex., 1¼c. higher; Ft. Worth, Tex. 1½c. higher; El Paso, Tex., 2c. higher; Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph, 1.6c. higher dlvd. Pac. Coast; for Denver, Pueblo, Salt Lake City, Wichita prices are equalized with Chicago.

Hansa, bbls., same basis as chrome	lb.	1.60 -	1.70
Primrose, bbls., same basis	lb.	1.90 -	2.10
Iron oxide, natural, bgs., c.l., works	lb.	.0141-	.0250
l.c.l., works	lb.	.0166-	.0275
French type, bgs., c.l.	lb.	.04½-	—
l.c.l.	lb.	.04¾-	—
Peruvian type, bgs., c.l.	lb.	.0185-	.0210
synth, bgs., c.l. works	lb.	.09 -	—
l.c.l. works	lb	.09¼-	—
Mercury oxide, bbls., 1,000 lbs	lb.	1.93 -	—
smaller lots	lb.	1.95 -	—
Ocher American golden, bgs., works	lb.	.01¼	.02¾
Zinc, bbls. same basis as chrome	lb.	.23½-	—
Yellow dock root, bls.	lb.	.16 -	.25
Yellow xanthorrhiza (see Xanthorrhiza)			
Yerba santa leaves, bls.	lb.	.30 -	.35
Yohimbine hydrochloride vls.	oz.	3.25 -	4.00

Z

Zein, bgs., 36,000 lbs., works	lb.	.30 -	—
1,000 lbs. to 36,000 lbs., works	lb.	.32 -	—
smaller lots, works	lb.	.35 -	—
Zinc acetate, tech., bbls., dms.	lb.	.28¼-	—
NF, dms.	lb.	.38 -	—
Arsenite, bgs., c.l., frt. alld. E. of Rockies	lb.	No stocks.	
l.c.l., same basis	lb.	No stocks.	

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Zinc borate, bgs., c.l., ship't pt., frt. alld., E lb. .12 - .15½
frt. alld. Pac. Coast lb. .15 - .17½
l.c.l., ship't pt., frt. alld. E lb. .12½- .16
frt. alld. Pac. Coast lb. .16¾- .19¼
Carbonate, tech., rubber makers, bbls., works lb. .10¾- —
precip., powd., dms lb. 26 - —
Purified precip., dms lb. 37 - —
Chloride, tech., fused, dms., c.l., works 100 lbs. 7.00 - —
l.c.l., works 100 lbs. 7.40 - —
gran., bbls., c.l., works 100 lbs. 7.75 - —
l.c.l., works 100 lbs. 8.15 - —
solution, 50%, dms., c.l., works. 100 lbs. 3.90 - —
l.c.l., works 100 lbs. 4.50 - —
tanks, works 100 lbs. 3.25 - —
NF, gran., dms lb. .42 - —
Chromate (see Yellow, zinc).
Cyanide, kgs., works lb. .38 - —
Diethyldithiocarbamate, dms., wks. lb. 1.00 - —
Dust, bbls., c.l., works lb. .11¾- —
l.c.l., works lb. .12¾- —
Fluoride, bbls., works lb. .40 - —
Hydrosulphite, dms., c.l., frt. alld. lb. .17¼- —
l.c.l. lb. .17¾- .18
Iodide, NF, jars lb. 4.85 - —
Laurate, bbls lb. 45 - .46
Linoleate, solid, 9½%, bbls. lb. .50 - —
Metal slabs, E. St. Louis lb. .09 - —
Naphthenate, liquid, 8% Zn., frt. alld. lb. .20¾- —
10% Zn, dms., frt. alld. lb. .25½- —
Oleate, bbls lb. .42¼- —
Oxide, pigment, dom., acicular, bgs., c.l., ship't point, frt. alld. lb. .10 - —
l.c.l., works lb. .10¼- —

Zinc oxide, pigment, dom., American process, com'l, lead-free, bgs., c.l., ship't point, frt. alld. lb. .10 - —
l.c.l., works lb. .10¼- —
leaded, 5%, bgs., c.l., ship't point, frt. alld. lb. .10 - —
l.c.l., works lb. .10¼- —
35%, bgs., c.l., ship't point, frt. alld. lb. .11½- —
l.c.l., works lb. .11½- —
50%, bgs., c.l., ship't point, frt. alld. lb. .11⅝- —
l.c.l., works lb. .11⅞- —
French process, com'l, lead-free, bgs., c.l., ship't point, frt. alld. lb. .12¼- —
l.c.l., works lb. .12½- —
green seal, bgs., c.l., ship't point, frt. alld. lb. .11¾- —
l.c.l., works lb. .12 - —
red seal, bgs., c.l., ship't point, frt. alld. lb. .11¼- —
l.c.l., works lb. .11½- —
white seal, bgs., c.l., ship't point, frt. alld. lb. .12¼- —
l.c.l., works lb. .12½- —
USP, ctns., c.l., ship't point, frt. alld. lb. .13¼- —
l.c.l., same basis lb. .13½- —
Zinc oxide Pac. coast prices &c. higher; bbl. prices ¼c. higher than bgs.
Phenolsulphonate, NF, gran., bbls., dms lb. .28 - .29
powd., bbls. lb. .31 - .33
Resinate, fused, 1% Zn., dms., frt. alld. lb. .20 - —
precip., dms., frt. alld lb. .22 - —
Silicofluoride, bbls., works lb. 10 .10½
Stearate, tech., USP, ctns., c.l. lb. .34 - —
ton lots lb. .35 - —
less ton lots lb. .36 - —

Zinc sulphate, cryst., 22% Zn, bgs., c.l., works, frt. alld 100 lbs. 4.55 - —
l.c.l., same basis 100 lbs. 4.95 - —
flake, 25½%, Zn, bgs., c.l., works 100 lbs. 5.50 - —
l.c.l., works 100 lbs. 5.70 - —
powd., 36% zn., bgs., c.l., dlvd. same basis 100 lbs. 7.00 - 7.40
l.c.l., same basis 100 lbs. 7.40 - 7.75
Zinc sulphate in bbls. 40c. higher
USP, gran., dms lb. .22 22½
Sulphide, pure, ogs., c.l., frt. alld. lb. .12¼- —
l.c.l., works lb. .12½- —
Barium pigment, bgs., c.l., dlvd. lb. .07¾- —
l.c.l., works lb. .08 - —
Calcium, pigment, bgs., c.l., dlvd lb. .07¾- —
l.c.l., works lb. .08 - —
Sulphide, luminescent pigment, frt. alld lb. 1.00 - 3.00
Magnesium pigment, bgs., c.l., dlvd lb. .07¾- —
l.c.l., dlvd. lb. .08 - —
Zinc sulphide and pigment, Pac. coast prices ¾c. higher; bbl. prices ¼c. higher than bgs.
Yellow (see Yellow, zinc)
Zinc-ammonium chloride, bgs., c.l., works 100 lbs. 7.00 - —
l.c.l., bags, works 100 lbs. 7.40 - —
Zinc-cadmium sulphide, fluorescent, cns., frt. alld lb. 2.00 2.80
Zinc-calcium resinate, dms., c.l., works lb. .1180- .1360
l.c.l., same basis lb. .1220- .14
Zinc-formaldehyde sulphoxalate, basic, dms., works lb. .23 - .23½
normal, dms., works lb. .43 - 45
Zircon (see Zirconium silicate).

Zirconium acetate, 13% sol. ZrO_2, bbls., works lb. .21¼- —
Carbonate, basic, cake, bbls., works lb. .30½- —
Hydride, cns., works lb. 7.00 - —
Nitrate, dms., works lb. 1.75 - —
Oxide, 98½-99%, white, grd., bbls., or bgs., works lb. 1.50 - —
lump, electric-fused, bgs., works lb. .44 - —
5 tons, works lb. .44½- —
1 ton or less, works lb. .45 .48
milled, electric-fused, bgs., c.l., works lb. .50 - —
5 tons, works lb. .59½- —
1 ton or less, works lb. .60 .63
Oxychloride, cryst., ctns., 5 tons, works lb. .29½- —
Silicate, granular, bgs., c.l., works, lb. .03¼- .03¾
10 tons, works lb. .03½- 04
5 tons, works lb. .04 -
1 ton or less, works bl. .04¼- 04¾
milled, bgs., c.l., works lb. .04¾ —
5 tons, works lb. .05¼ —
1 ton or less works lb. .05¾ .06¾
refined, bgs., c.l., works lb. .11 —
5 tons, works lb. .11½- —
1 ton or less, works lb. .12 .16
Sulphate, cryst., ctns., c.l., works lb. .37½- —
5 tons, works lb. .38 - —
1 ton or less, works lb. .38½- .39

Synthetic Resins

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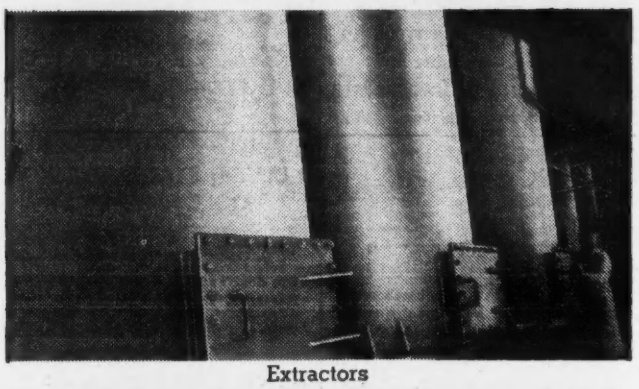
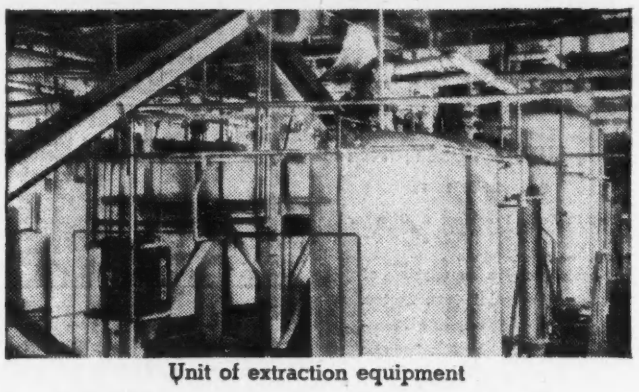


Extractors



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Prices for most botanicals had a steadier quality than they had had for some time past. During the past week, quotations on the majority of items were maintained free from change even though demand for either medicinal or flavoring botanics was light and solely for immediate requirements. The market index held at 178.8 and compared with 205.9 prevailing a year ago after it dropped 2.1 points.

Price trend in the domestic primary market continued downward in respect to what collectors there would pay those who gather and dig botanical drugs. As compared with about a month ago, one influential list showed three botanicals at higher buying levels, twenty-six at lower levels, and 102 items unchanged. Thus the majority of drugs held unchanged, but where change did take place, reductions led advances by from here to Timbuctoo. However, it may be said that the reductions were conservative in degree.

Local representatives of some foreign shippers reported that local dealers showed virtually no interest in offerings. It appeared as though seller and buyer were rather wide apart in the matter of prices but the agents indicated that at this time there is more tendency abroad to stand rather firm on prices and not readily to accept bids. In other words, it seemed as though inflated values had been substantially deflated and that shippers were able to maintain prices just so long as their money in terms of dollars is not reduced further. On the surface, Britain is determined not to devalue the pound sterling; France finds its franc at a level indicating that the black market value is about that of the official franc; and the Italian lire seems to be sounder than it was a year ago. Under this situation in foreign currency, perhaps shippers will be able more often to obtain their ideas on values and also will be less often obliged to accept buyers' bids. The situation remains to be fully developed.

Barks

Elm—Some primary market collectors have reduced prices offered gatherers of well rossed, white slipper elm bark. On the whole, values in this article have tended in favor of buyers.

Sassafras—Ordinary qualities of this bark are fetching their gatherers somewhat less money than they did about a month ago. This early in the season has been significant for the attempts of collectors to obtain new crop goods at a lower cost to themselves.

Wahoo—Root bark held very steady at all points. Tree bark in the country was priced lower than it was a month ago but virtually no immediate interest on the part of consumers has been noted.

Beans

Vanilla—Demand has continued to show up better than fairly well and most suppliers felt that July transactions would probably equal those in June—and sales in the latter month topped the substantial business booked last January, according to some suppliers. The idea that price drops at primary market points would discourage new production continued to go the rounds and it was definitely established that Mexican growers were disgusted with the returns they have been able to secure. It might alleviate their distress if they could sanely recall the fact that at least some of the prices obtained for vanilla beans in the past several years were the result of special conditions that brought an inflation of values that simply could not continue once the special influence of the war had disappeared. So far as Bourbon beans go, prices in Madagascar would seem to be sensationally low if, for comparison with prewar prices, the item of export taxes and other special charges, that were not in effect then, be omitted, in the interest of equitable comparison.

Flowers

Chamomile—Jobbing inquiry was an improvement over the almost total absence of demand during the past fortnight. The market was found to be reasonably sound in the matter of price maintenance and subject only to a limited degree of competition between suppliers. Only a few intimations on new crop prices have been received and the prices abroad seem to be maintained at rather surprising levels.

Linden—Trade was slow and often consisted of inquiries that did not become orders last week. A fairly steady price position prevailed in most quarters at home and abroad.

Gums

Arabic—Jobbing business acted to the fair support of spot prices but slowness in numerous of the consuming industries continued to contribute to the maintenance of a comparatively low volume of sales out of spot supplies. The latter were said to be of excellent size and well, if broadly, distributed on spot.

Olibanum—Demand was about even with that expected at this season of the year. Replacement costs in recent cables have shown practically no change and the result has been the maintenance of very steady prices irrespective of the limited movement into consuming channels at this time of the year.

Herbs and Leaves

Belladonna—New crop has made a fair growth though it could have stood more moisture in recent weeks. The spot market lacked more than jobbing activity but those able to quote on new crop for later delivery have made some progress with contracts.

Horehound—Domestic horehound herb brings its gatherers hardly anything this year and dependence on foreign sources of supply is inevitable—as usually it is. Though inactive, the spot market appeared to be very steady last week.

Liverwort—Some primary market collectors have reduced prices they are willing to pay gatherers of this material below levels prevailing but a month ago. The spot market was inert.

Stramonium—Those who sell a domestic article do not think as well of the item as they did a month ago. They have lowered their buying prices to the gatherers, though the drop was moderate. No change in the spot position of the item was noted nor seemed likely soon.

Miscellaneous

Balm of Gilead—Further and quite sharp reduction in buying prices, as compared with those in force about a month ago, have been instituted by some primary market collectors of this material. Since early this year, buying prices on dried buds have declined 25c. and those on green buds 30c. per pound.

Ergot—An exceptionally firm spot market prevailed despite the absence of more

For Late Market Developments, See Page 4

Market Trends

Prices Advanced

Drugs

None

Other Articles

Caraway seed, Danish, ¼c. per lb.
Celery seed, French, 1c. per lb.
Coriander seed, Morocco, ¼c. per lb.
Cumin seed, Turkish, ½c. per lb.
Mace, West Indian, 5c. per lb.
broken, 3c. per lb.
Oregano, Mexican, ½c. per lb.
Sesame seed, Chinese, hulled, 1c. per lb.
Turmeric, Haitian, 2c. per lb.

Prices Reduced

Drugs

Ginger root, African, 1c. per lb.
Jamaica, No. 2, 2c. per lb.
No. 3, 1c. per lb.

Other Articles

Cassia, Honan rolls, scraped, broken, ½c. per lb.
Yunnan rolls, scraped, broken, ½c. per lb.
unscraped, ½c. per lb.
broken, ½c. per lb.
Cinnamon, Ceylon, ½c. per lb.
Nutmegs, East Indian, 3c. per lb.
Pepper, black, spot, 1c. per lb.
Aug.-Sept. shipment, 3c. per lb.
Jan.-March shipment, 2c. per lb.
white, 3c. per lb.

Comparative Price Indexes

(100—August 1, 1914)

Last week	Prev. week	Last month	Last year
178.8	178.8	180.7	205.9

(For Current Prices see Page 9)

Imports Detained by FDA

Week Ended July 1

Bath salts, perfumed, 2 cases: no name of manufacturer, packer or distributor; no quantity of content; claims.
Cassia buds, 50 bags: live and dead insects.
Chillies, 70 bags: live and dead insects.
Codliver oil, 60 drums: not USP.
Pepper, black, 467 bags: moldy and insect bored; excess siftings and pickings.
Pimento, 50 bags: live and dead insects.

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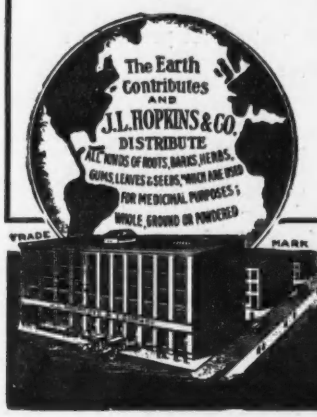
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than moderate-sized demand for spot parcels during the past week. Stocks were non-existent in some directions. Replacement costs were relatively high and stocks available for prompt shipment were none too ample.

Roots

Blood — Country prices were still slanted down because of the extremely low level of buyers' interest at this time. Sales last year were a disappointment to some and in such directions much care with respect to purchases from diggers is being exercised.

Cohosh—Consumer demand for black cohosh has yet to develop as a test of how satisfactory stocks collected to this time may be. However, it was noted recently that prices now offered diggers are slightly lower than they were a month ago.

Mandrake—Some collectors have depressed buying prices still further. And although the prices at which present primary market stocks are offered dealers and consumers remain unchanged, it appeared as though prospective buyers expected to buy for less than the amounts quoted at the origin.

Rhubarb—A substantial quantity of rhubarb root has been offered to this market from Germany and at prices which those handling the proposal believe to be exceptionally attractive. The German allegation was that the root was the Chinese variety. The spot market seemed to be slightly softer, though prices lacked further development.

Turmeric—Haitian root on spot was much higher at 12c. to 13c. per pound. Alleppey root was strictly nominal in the absence of supplies of the genuine article. Some goods of Jamaican origin could be bought at 14c. to 15c. per pound on the spot.

Seeds

Caraway—Danish seed sold at a small fraction advance to the basis of 17½c. to 18c. per pound. Dutch seed held comparatively steady.

Celery—French seed was quoted higher at 25½c. to 26c. per pound but confirmed sales thereat were difficult to find late last week. Indian seed was relatively steady on the spot and in the primary market.

Coriander—Morocco seed was a wee fraction higher at 6½c. to 6¾c. per pound but not much interest was displayed. Argentina was steady.

Cumin—Both Persian and Turkish seeds were available in future arrival position only and prices for both were 22½c. to 23c. per pound.

Fenugreek—Considerable interest was shown in Moroccan seed offered for import but not all of the quantity offered had been sold to a late hour in the week. Those who did purchase did so on the basis of successful bidding. Some suppliers have future needs well covered and they showed no interest in the item.

Spices

Cassia—Changes in price were restricted to Yunnan and Honan rolls, scraped and unscraped. Honan and Yunnan broken scraped rolls were offered at 13c. to 13½c. per pound, being down. Yunnan unscraped rolls and broken rolls were reduced to 13c. to 13½c.

Clove—Reports reaching here from Madagascar stated that information received there from French-Indo China related that the French government might soon authorize new business in clove. Madagascar believed that resumption of buying by French Indo-China would cause further rise in Madagascar prices. As of June 22, Madagascar also stated that there were about 3,000 tons of clove shipped to the Far East on the steamers lately to leave the island. The balance held on the island was estimated at 700 to 800 tons.

Advices received here direct from Zanzibar by cable stated that an increase in export duty was likely in July. Shipment quotations from that source were 21c. to 21¾c. per pound as to quality.

Mace—West Indian continued to advance. Whole was up to 80c. to 81c. per pound and broken West Indian became 68c. to 69c. Siauw remained strong but free from further advance in price.

Nutmegs—East Indian nutmegs were in extremely light spot supply but the price returned to a firm basis of 40c. to 41c.

Pepper—Inactivity continued to weaken spot quotations slightly and the forward position of the material were also down. Black pepper on spot was down to 99c. to $1 per pound; August-September shipment was 97c. to 98c.; and January-March was 74c. to 75c. White pepper was also a scarce spot item but little demand accounted for the price being reduced to $1.52 to $1.55.

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Essential Oils, Other Aromatics

Demand for citrous oils was sufficient to support the market well and California lemon sold at a slight advance. Italian bergamot was also higher in order to reflect the recent rise in replacement costs. African geranium was strong at a rise and distilled ginger was difficult to obtain until quoted prices at higher levels had been confirmed as still firm. Patchouli at a rise in price reflected the recent upping of shipment quotations. The market index rose 1.7 points and at 102.5 compared with 124.8 prevailing last year when, in the corresponding week, it rose 0.3 point.

Aromatic chemicals enjoyed a demand about level with that in recent weeks but special calls came for products involved in the manufacture of suntan lotions, the consumption of which is well on the way toward its seasonal climax. Sales of synthetics consumed in making flavorings were said also to have improved some and were higher than a month ago. Soap makers bought seldom but some upping of sales to perfumers and cosmeticians was noted.

The feeling was that demand on the part of consumers of citrous oils has probably reached its peak for this year. Many of the larger buyers have covered their entire requirements and, therefore, some suppliers look for trade to be confined to smaller consumers with prompt requirements to cover. The general market feeling, however, was one of considerable strength except in grapefruit oil which was in dull demand at a lower price.

One factor to be figured for strength was the development of some stability behind prices quoted on shipment oils in several primary markets. Accustomed to buying at successful bids, importers here have found foreign shippers disposed to adhere firmly to their price views. The result has been that less import business was done and it will remain light until seller and buyer can be brought together once more.

Market Trends

Prices Advanced

Bergamot oil, natural, 15c. per lb.
Citronellal, 10c. per lb.
Geranium oil, African, $1 per lb.
Ginger oil, distilled, 75c. per lb.
Hydroxycitronellal, $5.20 to $6.50.
Lemon oil, Californian, 5c. per lb.
Patchouli oil, 15c. per lb.

Prices Reduced

Bergamot, artificial, 50c. per lb.
Grapefruit oil, 5c. per lb.

Comparative Price Indexes

(100—August 1, 1914)

Last week	Prev. week	Last month	Last year
102.5	100.8	101.6	124.8

(For Current Prices see Page 9)

Essential Oils

Abies Siberica—The market was steadier. Sellers seemed unwilling to do business under $2.35 to $3.10 per pound, so quoted during the short week according to supplier. Demand was along jobbing lines, but it was steady in that respect.

Angelica—Stocks were little changed from the moderate distribution noted for some time past. The extremely wide range in price remained in effect and holders at either end of said range were not disposed to shade the market in the least. Demand was small.

Anise—The spot market has a certain rugged quality when it came to the maintenance of quotations over the range 72c. to $1.05 per pound. Some quarters felt that shipments from the origin would be maintained. Fair sized stocks were held here.

Bergamot—The market moved up slightly in response to the recently reported strengthening and even advance in prices at the origin. Local quotations ranged $4 to $4.60 per pound as to seller and brand. Demand changed very little and though still moderate, undertones gained in strength none the less.

Bois de Rose—Demand was none too active but along jobbing lines it was about equal to recent takings and, for the most part, the movement actived in the direction of well maintained spot prices.

Cananga—Most cables showed no weakening in the shipment price on this oil but, so far as local dealers were concerned, the interest in substantial quantities for import was strictly routine. Spot quotations held very steady under light request.

Cardamom—Demand for small lots was slightly more active and even a moderate gain in deliveries to smaller consumers was sufficient further to strengthen the spot position of this material. Quotations ranged $46.50 to $55 per pound, according to seller and few had more than small lots available. Replacement cost remained high because of the lack of reductions in raw material.

Cassia—Behind the relatively quiet spot market there was considerable strength that seemed based on the fact that there still remains a substantial uncertainty respecting the ability of Hong Kong shippers to keep a steady flow of oil moving into export irrespective of what the communists may do eventually in the area to which the British crown colony is adjacent. Private advices from the island city declare that it will be successfully defended from any communist attack.

Celery—Food processors were relatively small takers last week but the substantial strength governing raw material prices acted to the full support of quotations on oils irrespective of immediate demand. Said quotations proved to be exceptionally steady.

Clove—Spot demand was routine and built mainly of orders not often exceeding jobbing sized during the past week. Prices were very firm on the spot. All advices from origins of both spice and oil commented on the strength prevailing in all quotations as the result of business done with countries other than the United States.

Coriander—Processors of foodstuffs have yet to resume buying along liberal lines. The takings last week were indicative of hand-to-mouth purchase programs being maintained by most users. Prices remained relatively well stabilized at firm positions.

Erigeron—Though called for seldom, the market retained a firm undertone last week and well maintained prices did little more than reflect the smallness of stocks and the improbability of new crop being sold this year for less than that obtained for the 1948 crop.

Eucalyptus—European competition continued to keep prices below levels that Australian oils could readily fetch based on the cost of production "down under." Some local suppliers said Australian oil was superior in quality to the produce of other countries but local dealers in most instances sold merely U.S.P. oil.

Fir—Though the spot market still showed signs of considerable competition between suppliers, the drive for more business did not extend to the further reduction of local quotations. The market remained at the level of $1.85 to $1.95 per pound reached by a decline during the previous trading period.

Garlic—Demand was routine but in a jobbing way the movement was a slight improvement over that in recent periods. Prices at unchanged levels displayed considerable stability.

Geranium—All primary markets were very firm but all of them were also rather dull so far as the amount of demand reaching them from the United States. Local sellers held strong prices fully warranted by recent first costs and current replacement quotations. Demand was rather light and usually involved quantities of relatively small size for prompt consumption. Algerian oil on spot was up to $10.50 to $12 per pound.

Ginger—Raw material at whatever point was strong. Sharp price advances at the origin were said to have backing in the form of heavy demand from countries other than the United States. Oil, therefore, occupied an exceptionally strong position following an advance that in some instances reached $13.25 per pound and in one direction hit the high of $16.

Grapefruit—Stocks at all points were not overly large and most prices had an exceptionally firm undertone regardless of the rather conservative demand reaching most suppliers. One quarter shaded previous prices by 5c. per pound.

Lavandin—Competition was exceptionally keen although some important suppliers were not the least disposed to meet the minimum of $1.10 a pound which was quoted in a single direction last week. Demand was strictly routine last week.

Lavender—French shippers have not shown any price-weakness of late and their ideas during the past week were such as not to result in any substantial purchases of oil for later delivery to this country. Local stocks were of ample size and all probable needs for the even more distant future seemed well protected thereby.

Lemon—Demand was virtually at its seasonal height in terms of actual consumption of this oil. Prices seemed sub-

For Late Market Developments, See Page 4

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stantially firm throughout the past week and some resistance of price-bidding could be found without much trouble. Domestic oil was up slightly to $2.80 to $3 per pound and Italian was held firmly over the range $2.60 to $5 which prevailed according to quality and brand.

Lime—The season of largest consumption is passing without primary market points having increased shipments to this market notwithstanding the high prices that have been obtainable here. The market on spot remained undersupplied to a point making virtually all quotations subject to confirmation and, therefore, virtually nominal. Demand was expected to fall off soon.

Mandarin — Jobbing interest was very fair most of the time last week but the total of trade was said not to have done more than to keep quotations clear of most competition and, therefore, generally steady in practically all directions.

Nutmeg—A firmer undertone came over the market for East India spice and that fact gave considerable strength to prices prevailing on oil made from such material. Stocks of spice were relatively short. Fair holdings of oil from West India nutmegs were in hand at prices generally called steady.

Ocotea Cymbarum—In most respects, it was a buyers market so far as this oil was concerned but few buyers wanted the article since the price was far above levels at which competing oil could be had. The market, therefore, was virtually nominal here and at the origin.

Orange—Stocks were still plentiful and a very fair sized consuming demand was being readily supplied at prices almost sensationally low. The quality of most oil being offered locally ran high, a fact that added to the competitive character of the market as prevailing for many months past. Quotations lacked any change.

Patchouli—The market has moved up at last and at the end of last week quotations ranged $6.10 to $7.50 per pound and varied according to seller and the quality of oil offered consumers. The general replacement position was said to have strengthened.

Peppermint—Distillation operations are due to start shortly in the growing areas and it has seemed likely that the recent calming of the market and ending of price reductions may be a forerunner of somewhat adverse production conditions. Cold weather has prevented a normal development of eastern mint and the condition of the 1949 crop is behind that in years of normal climatic influences. At least, local sellers stood pat on prices last week while awaiting new crop developments.

Despatches from London removed most hope for larger exports to that country this year. Only pressing and strictly essential articles will be bought in the U. S., because of the U. K. dollar crisis.

Petitgrain — Suppliers said buyers' wants were relatively small and inquiry on the whole was less than it had been. However, prices have not developed downward trends, but have remained at $2.25 to $2.80 per pound according to seller, quality and amount.

Spearmint—Trade was at a standstill. Buyers were aloof because of a policy of awaiting actual new crop price developments. However, declines during the past several months have gone far to the discounting of oil produced to sell at lower prices this year.

Tansy—The few spot sellers of this oil felt that present prices discount probable developments anent new crop and most of them expect quotations to remain very steady in the future unless demand shall undergo a substantial change.

Aromatic Chemicals

Amyl Salicylate—Light but very steady demand prevailed. Stocks were sufficient to cover any substantial increase in needs.

Coumarin—No further reduction in price has been made and conditions seemed to suggest probable stability in values for some time to come. Demand was routine but up to that in recent weeks.

Eugenol—The market was basically very firm, usually because of production costs rather than because of a superior volume of consuming request. However, the call was also a good support to firm prices.

Geraniol—Price firmness was related to the cost of raw materials. However, supporting demand was said to have undergone some improvement last week and the market ended the period in very firm position, according to most local suppliers of the item.

Eucalyptus Oil Displayed

The history of the Australian eucalyptus oil industry is being featured in an exhibit in the Australian Display Centre, R.C.A. Building, Rockefeller Center, New York. The exhibit deals with the industry from the raw material stage to the varied products for which eucalyptus oil is a necessary component.

Trade Briefs

Pepsodent Division of Lever Brothers Company has launched an advertising campaign to introduce its new ammoniated tooth powder.

R. E. Kent has joined the research staff of Chas. Pfizer & Co., Brooklyn, N. Y. He was formerly with the plastics department, E. I. du Pont de Nemours & Co., Arlington, N. J.

Winthrop - Stearns, Inc., medicinals, New York, has resumed manufacture and marketing of "Neocurtasal," a sodium-free salt substitute. The company notes that it is indicated "for salt (sodium)-free diet in cardiac diseases, particularly when associated with edema, hypertension, arteriosclerosis and certain complications of pregnancy." According to the manufacturer, it contains no lithium chloride.

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Flavor, Perfume Materials Data for 1948 Reported

Statistics on production and sales of synthetic flavor and perfume materials in 1948 are contained in a preliminary report on synthetic organic chemicals issued by the United States Tariff Commission. The data are as follows, in pounds:—

CYCLIC	Production	Sales
Total	15,444,500	12,535,800
Benzenoid and Naphthalenoid		
Total	9,091,900	8,175,900
Acetophenone	37,200	58,700
a-Amylcinnamaldehyde	115,600	89,400
Amyl salicylate	164,500	164,100
Anisaldehyde	132,800	129,800
Benzophenone	77,300	71,300
Benzyl acetate	370,000	358,000
Benzyl alcohol[1]	605,400	556,500
Benzyl benzoate[2]	208,100	217,500
Benzyl cinnamate	3,500	2,400
Benzyl propionate	.....	700
Cinnamic acid	30,000	.....
p-Cresyl acetate	....	.....
Ethyl a-toluate (Ethyl phenylacetate)	255,900	56,300
Eugenol	61,100	56,500
Isoeugenol	40,100	.....
p-Methylacetophenon (methyl-p-tolyl ketone)	17,100	16,700
Methyl benzoate	81,900	.....
Methyl cinnamate	31,900	31,000
Methyl eugenol ether (Methyl eugenol)	700	500
Methyl salicylate (Wintergreen oil)	2,832,100	2,907,600
Musk xylene	140,100	146,100
Phenethyl acetate	13,900	5,000
Phenethyl alcohol (Phenylethyl alcohol)	404,000	287,800
3-Phenyl-1-propyl alcohol (Hydrocinnamic alcohol)	8,700	.....
Vanillin	932,400	793,200
All other benzenoid and naphthalenoid compounds	2,507,600	2,225,100
Terpenoid, Heterocyclic and Alicyclic		
Total	6,352,600	4,359,900
Cedrol	5,900	5,700
Cedryl acetate	10,400	12,400
Citral	32,100	30,500
Citronellol	89,100	47,600
Coumarin, synthetic	456,900	396,900
Geraniol	229,000	114,100
Geranyl acetate	18,400	8,300
Geranyl formate	800	400
Hydroxycitronellal	66,000	35,700
Indole	.....	4,200
a-Ionone	9,000	4,300
b-Ionone	12,000	.....
Ionone, all other	42,000	41,400
Linalool	37,900	23,600
Linalyl acetate	67,600	33,500
Menthol, synthetic, tech. and USP	131,900	114,600
Methylionone	102,600	83,000
Nerol	1,500	1,600
Piperonal (Heliotropin)	128,800	.....
Rhodinol	4,300	4,100
Safrol	143,200	112,700
Terpinyl acetate	151,100	146,300
Terpinyl propionate	...	2,100
Vetivenyl acetate	4,900	.....
All other terpinoid, heterocyclic and alicyclic materials	4,607,200	3,138,900
ACYCLIC		
Total	6,748,600	6,480,700
Allyl caproate	3,400	2,600
Ethyl butyrate	136,100	140,700
Ethyl enanthate	6,500	7,800
Ethyl isovalerate	.....	1,900
Ethyl pelargonate	400	.....
Glutamic acid, monosodium salt (monosodium glutamate)	6,158,700	6,070,600
Isoamyl butyrate	24,300	27,300
Isobutyl acetate	3,700	.....
Methyl heptenone	1,700	1,500
n-Octyl aldehyde (C_8)	900	.....
Undecylenic acid	127,400	30,900
All other acyclic materials[3]	284,900	197,400
Grand total	22,192,500	19,016,500

[1] Includes minor quantities of technical benzyl alcohol.
[2] Includes data for benzyl benzoate for use as a mitocide and as a pharmaceutical.
[3] Includes data on production and sales of chemically modified essential oils.

Note—The statistics on sales of flavor and perfume materials in 1948 do not include the quantity and value of interplant transfers as did the statistics for 1947 and earlier years. The sales statistics given in this report, therefore, are not strictly comparable with the sales statistics given in earlier reports.

Bids Wanted

Alcohol, ethyl-methyl, 27,500 gallons, Navy Department (Aviation Supply Office, Philadelphia 11) invitation 7474, July 14.

Caustic soda, flake, 158,000 pounds, Navy Purchasing Office (New York 3) invitation 5162, July 26.

Chemicals & drugs, including lemon oil, phenol, sodium bicarbonate tablets, theogroma oil, tolidine tablets, trichloroacetic acid, methanol, Armed Services Medical Procurement Agency (Brooklyn 1, N. Y.) invitation 1330, July 18; various, invitation 1328, July 18; various, including aluminum hydroxide gel, aromatic ammonia spirits, belladonna tincture, benzoin tincture, heparin injection, invitation 1331, July 18; procaine penicillin G, and biologicals, invitation 1326, July 18; various, Purchasing Officer, Medical Section, Panama Canal (Washington 25) circular 5518, July 14; circular 5522, July 13.

Chlorinated lime, 495,000 pounds, Quartermaster Purchasing Office (New York 3) invitation 1451, August 1.

Compressed gases, anesthesia, oxygen, 25,000 gallons; nitrous oxide, 15,000 gallons; carbon dioxide, 8,000 gallons; cyclopropane, 3,000 gallons; oxygen and carbon dioxide mixture, 1,000 gallons; helium, 1,000 gallons; and helium and oxygen mixture, 500 gallons; Navy Purchasing Office (Chicago 11) invitation 4661, July 12.

Cutting compound, 4,500 gallons, Navy Department (Aviation Supply Office, Philadelphia 11) invitation 5241, July 29.

Fuel oil, 2,400,000 barrels, Armed Services Petroleum Purchasing Agency (Washington 25) invitation 110, July 15; diesel, 520,000 barrels, invitation 111, July 15.

Hydraulic fluid, 5,200 gallons, Navy Purchasing Office (New York 3) invitation 5227, July 28.

Ink, litho offset, black, through June 30, 1950, Coast & Geodetic Survey, Department of Commerce (Washington 25) invitation 726, July 18; green, invitation 727, July 21.

Linseed oil, boiled, 27,231 pounds, and raw, 33,862 pounds, State of New York Division of Standards & Purchase (Albany 1) invitation 757, July 18.

Methyl bromide, 2,250 pounds, Quartermaster Purchasing Office (New York 3) invitation 1451, August 1.

Milkpowder, 160,000 pounds, Quartermaster Purchasing Office (Chicago 9) invitation 1304, July 26; 120,000 pounds, invitation 1306, July 29.

Oil cake & meal, 22,050,500 pounds, Quartermaster Purchasing Office (Chicago 9) invitation 1307, July 12.

Paint, enamel, 8,000 gallons, Post Office Department (Washington 25) invitation 443, July 18; **various,** 1,460 gallons, State of New York Division of Standards & Purchase (Albany 1) invitation 867, July 19; 1,200 gallons, Quartermaster's Depot (Ogden, Utah) invitation 112, July 18.

Paradichlorobenzene, deodorant disks, 86,000 pounds, Navy Purchasing Office (New York 3) invitation 5219, July 29.

Pesticides, insecticide, roach and ant, 94,000 gallons; rodenticide, 9,630 pounds; red squill, 5,000 pounds, Quartermaster Purchasing Office (New York 3) invitation 1451, August 1.

Polish, furniture, 17,000 gallons, metal, 13,750 gallons, Navy Purchasing Office (New York 3) invitation 5220, July 29.

Reagents & stains, Armed Services Medical Procurement Agency (Brooklyn 1, N. Y.) invitation 1327, July 18.

Soap, soft, 99,750 pounds, Armed Services Medical Procurent Agency (Brooklyn 1, N. Y.) invitation 1330, July 18.

Sulphuric acid, 100,000 pounds, Navy Purchasing Office (New York 3) invitation 5237, July 29.

Trichlorethylene, vapor degreasing, 140,000 gallons, Navy Purchasing Office (New York 3) invitation 5230, July 29.

Trisodium phosphate, approx. 20,000,000 pounds, Navy Purchasing Office (New York 3) invitation 5209, July 29.

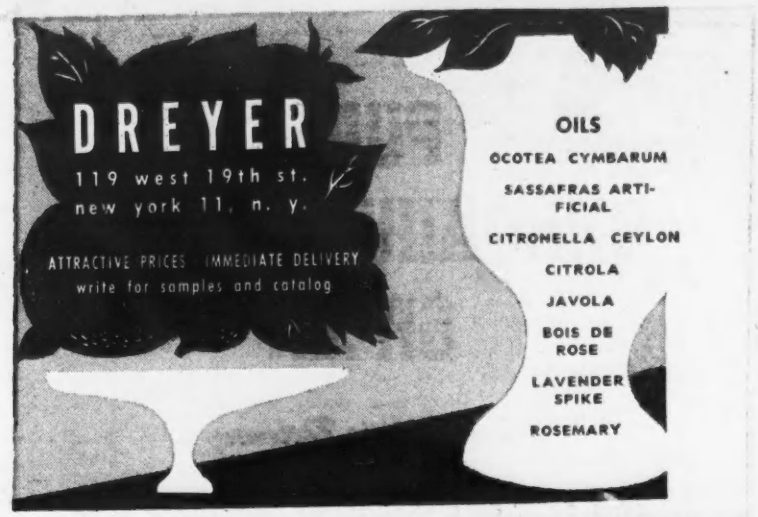
Exports Down, Imports Increased During May

The Bureau of the Census, Department of Commerce, has announced that United States exports of domestic and foreign merchandise declined from $1,148,300,000 in April to $1,077,200,000 in May, a level slightly below the January-March average of $1,095,200,000 but somewhat above the 1948 monthly average of $1,051,300,000. General imports, which increased slightly from $534,000,000 in April to $539,400,000 in May, were 10 percent below the first quarter average of $596,700,000 and about 9 percent below the monthly average of $593,700,000 during 1948.

The decrease in exports from April to May reflected important declines in three commodity groups:—Machinery and vehicles which dropped from $340,300,000 to $283,100,000, textile fibers and manufactures from $167,200,000 to $138,600,000 and chemicals and related products from $74,000,000 to $63,600,000. However, exports of vegetable food products and beverages increased from $154,200,000 to $184,700,000 and nonmetallic minerals rose from $113,400,000 to $122,800,000. Exports of other commodity groups varied only slightly from the April levels.

Costa Rica Sets Quinine Duties

The government of Costa Rica has classified certain quinine preparations under item 170 of its import tariff schedule, at a rate of 0.03 dolon per gross kilogram, according to a report from the United States Embassy at San Jose.



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	DESCRIPTION	USES
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465 RESIN	Melting point—105° to 120° C. Soluble in aromatic solvents and partially in petroleum solvents.	Used in the manufacture of adhesives, box toes, ethyl cellulose lacquers, impregnations, linoleum, floor tile, sealing compounds, varnishes and in the compounding of natural and synthetic rubber.
NUBA #1, 2, 3X	Melting point from 80° to 135° C. Soluble in aromatic solvents. They are cohesive and have high molten viscosity.	Used in the manufacture of adhesives, binders, box toes, briquettes, composition insulating blocks; filling, stiffening, molding and thermal insulating compounds; leather dressings, steep-roof coatings and for compounding natural and synthetic rubber.

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A-32

Protective Coatings Materials

Metals continued to dominate interest in last week's market, as copper and lead, reversing the downward trend of recent months, each advanced one cent per pound. As a result, a variety of lead pigments moved up accordingly. Other developments included rises in some dammar gums and an increase in chemically-isolated protein. The price index held firm at 201.8.

Pigment makers moved immediately in the wake of Friday's boost in metallic lead, increasing red lead, litharge and mineral orange 1 cent apiece. Basic silicate white lead was upped ½ cent to 1 cent per pound depending on the brand. As of press time, only one producer of white lead had raised the price, hoisting that material ¾ cent. Lead sulphate was unchanged as of the close of Friday's business. Copper oxide stood fast, despite the week's gain in that metal.

There was better call for zinc oxide during the past seven days, due primarily to the stability of pigment schedules and the depletion of consumer inventories. Reduced output together with stepped-up interest in slab zinc was said to have firmed up the metal price considerably. Inquiry for zirconium oxide slipped slightly, owing to reduced operations by the ceramic industry.

Batu scraped and Singapore No. 1 dammars were up one-half cent and one cent per pound, respectively, in New York last week. Trading was slow, vacations and Summer shutdowns accounting for much of the reduced activity. The Calcutta shellac market was steady, and New York prices stood their ground.

Settlement of the Canadian asbestos strike was expected to relieve the critical supply situation in this country shortly. Also of interest was the announcement by a leading producer that that company will finance immediate development of new asbestos deposits in northern Ontario. Commercial production is expected before May, 1950.

Casein prices here were unchanged, as the Argentine market remained muddled. The trade speculated on the effect of the recently-signed Anglo-Argentine trade pact by which Great Britain agrees to take 2,700 tons of Argentine casein per year for the next five years. Hide glues steadied in the wake of recent 2-cent reductions. Lecithin was firm and ample in a slow market. Effective yesterday, chemically-isolated soybean protein went up one-half cent across the board.

Market Trends

Prices Advanced

Gum, dammar, East India, batu, bold, ½c. per lb.
Singapore, No. 1, 1c. per lb.
Lead, red, all grades, 1c. per lb.
white, basic silicate, ½c. to 1c. per lb.
Litharge, 1c. per lb.
Orange, mineral, 1c. per lb.
Rosin, gum, New York, E, F, G, H, I, K, M, N, WG, 13c. per 100 lbs.
Savannah, G, H, I, K, M, 5c. per 100 lbs. N, WG, 3c. per 100 lbs.

Prices Reduced

Rosin, gum, Savannah, WW, X, 1c. per 100 lbs.
Turpentine, gum, Savannah, ¼c. per gal.

Comparative Price Indexes

(100=August 1, 1914)

Last week	Prev. week	Last month	Last year
201.8	201.8	202.4	202.3

(*For Current Prices see Page 9*)

Prime Pigments

Cadmium Colors—Although inventories of the metal continued very narrow during the week, availability of derived pigments remained excellent. Producers attributed this to the fact that residues are the primary raw material in the manufacture of the colors. Demand for colors was slow. Prices were maintained. Orange lithopone was at $1.10 per pound. Red lithopones ranged from $1.15 to $1.55, depending on shade. CP yellow was offered at $2.65, and all shades of yellow lithopone brought 95c.

Chrome Colors — Buying interest remained on the sluggish side during the past seven days. Stocks were readily available all along the line. There were no price changes, and none were anticipated within the immediate future. CP greens commanded 36c. to 46¾c.; reduced greens were at 12¾c. to 28¾c.; CP orange was listed at 30¼c. per pound, as was CP yellow.

Copper Oxide — Demand for the metal stepped up considerably last week, and the price of electrolytic copper advanced 1c. per pound. The price structure of the oxide, however, remained unchanged. As of press time, it was uncertain whether or not pigment producers planned to adjust their schedules accordingly. Current quotations call for 23½c. to 26¼c. per pound on the black and 25½c. to 28¾c. on the red.

Lead Pigments—In an eleventh-hour move on Friday, metallic lead was raised 1c. per pound, thus halting the downward price spiral of recent months. Pigment manufacturers followed almost immediately with like advances on red lead, litharge and mineral orange. Basic silicate white lead was hiked ½c. to 1c. per pound, depending on the make. As of press time, only one maker had moved dry white lead, upping that material ¾c. per pound. Lead sulphate was unchanged as of the close of Friday's business.

Mercuric Oxide—There were some small-lot sales of quicksilver at $81 per flask last week, but the going market price held steady at a range of $79 to $84. Mercury salts were similarly steady at $2 to $2.02 for the red oxide and $1.93 to $1.95 per pound for yellow oxide. Pigment stocks were good, as buying remained fair.

Titanium Dioxide—Both pigment and welding-rod grades were in ample supply during the past seven-day period. There was some mild increase in business from paint formulators, but call from rod makers was reported spotty. There were no changes in the price structure during the period under review.

Zinc Oxide—Cut-backed production together with stepped-up interest last week was said to have firmed up the metal price considerably. Currently, zinc slabs, f.o.b. East St. Louis, are quoted at 9c. per pound. Meanwhile, call for the oxide was also reported to have increased, owing primarily to present stability of the pigment and depletion of consumer inventories. Supplies of zinc oxide were in good availability throughout the market, and there was no expectation of any narrowing within the near future. The price situation remained on a par with previous levels.

Total production of zinc oxide in April declined 11 percent to 12,840 short tons, the lowest monthly output since April, 1943, according to the Bureau of Mines. April output compares with 14,374 tons turned out in March and the 1949 monthly average of 14,269 tons. Producers' stocks at the close of April increased 15 percent to 29,230 tons, the highest monthly level since May, 1946. Stocks on March 31 were 25,416 tons. Zinc oxide shipments in April were 9,026 tons, which compares with 9,166 tons in March and the 1949 monthly average of 9,500 tons.

Zirconium Oxide — Call was reported off slightly during the period under review, with the decline attributed to reduced operations by the ceramic industry. Stocks were excellent at the producer level, and offerings were freely available for prompt shipment. There were no price changes last week, nor were any expected within the immediate future. White, ground was at $1.50 per pound; lump, electric-fused brought 44c. to 48c. per pound, and milled was at 59c. to 63c.

Pine Gum Prices

Prices received by producers for crude pine gum delivered to processing plants during the week ended July 2 averaged $21.31 per standard barrel of 435 pounds, according to the Department of Agriculture. This compares with an average price of $21.28 for the previous week. The average estimated content per standard barrel was 11.38 gallons of turpentine and 298.1 pounds of rosin. Percentages of gum by grades were WW 47, WG 19, N 11, M 12, and K and below 11 percent. Receipts at nineteen reporting plants totaled 30,569 standard barrels, an average of 1,609 barrels per plant, as compared with 1,533 barrels a week ago.

Fillers and Extenders

Calcium Carbonate—Arrivals during the past seven days totaled 4,680 bags of

For Late Market Developments, See Page 4

whiting from London, Antwerp and Liverpool. There was no change in the market position. Demand remained slow. Stocks were plentiful. Prices were maintained.

China Clay—Imported during the past week were 6,091 tons of clay from Fowey. The market was otherwise without feature.

Kyanite—Importations during the period under review aggregated 619 tons of kyanite ore from Mombasa.

Magnesium Silicate—Demand continued at previous levels last week. There was no change in going schedules. Stocks were ample all along the line. Shipments received from abroad during the seven-day period included a total of 14,286 bags of talc from Genoa.

Mica—Buying interest continued at a moderate pace during the week. Stocks were more than ample in view of current demand. Prices were without change. Arrivals during the period were reported at 2,950 cases of mica from Calcutta and Rio de Janeiro.

Vermiculite—Importations last week aggregated 196 tons of vermiculite from Lourenco Marques.

Natural Resins

New York prices on dammar gums were stronger in last week's market, East India, batu, bold and Singapore No. 1 registering gains of ½c. and 1c. per pound, respectively. Business was slow during the week, vacations and plant shutdowns accounting for much of the reduced activity. However, most dealers believed that naturals were rediscovering their customers, and that consumption generally was climbing gradually to its prewar position. With the exception of No. 1 dammar, which continued in very narrow supply, most gums were readily available. DBB was quoted at 17½c. to 19½c. Batu scraped was at 10c. to 11c. Singapore No. 1 brought 33c. to 35c. per pound. Importations during the seven-day period totaled 30 cases of mastic gum from Saonika and Piraeus.

Shellac—Calcutta held firm during the week at 123 rupees, and New York prices stood their ground. Buying at the source was still on a limited basis. As a result, stocks of the better orange grades here were still very low. Some dealers indicated that they had no lemon lacs at all to offer consumers. Demand in this country remained spotty due to vacations and plant closings. What sales were transacted were purely hand-to-mouth propositions. Following are current market quotations:—Bleached, bonedry, 61½c. to 64c.; bleached, refined, 71½c. to 74c.; lemon, No. 1, 66c. to 67c.; lemon, No. 2, 64c. to 65c.; superfine, 59c. to 60c., and TN, 56c. to 57c. per pound. Imported during the week were 450 bags of buttonlac, 2,002 bags of seedlac and 3,360 bags of shellac from Calcutta, Bangkok, London and Rotterdam.

Miscellaneous Materials

Asbestos—With the settlement of the Canadian strike, producers were hopeful of relieving the critical supply situation in this country within the next few weeks. Meanwhile, stocks of all fibers were desperately low during the past seven days. Prices held steady. Imported were 8,500 bags of asbestos fiber from Capetown and Lourenco Marques.

Also of interest was the announcement by a leading producer that that company will finance immediate development of new ore deposits in northern Ontario. The mine is expected to get into commercial production before May, 1950. It will have a capacity of fifty tons of mill rock per hour. Mining operations are being laid out and the mill is designed so that its capacity can be doubled at any time.

Casein—The Argentine market remained in a muddled state last week, and New York prices stood fast at 20c. for domestic and 19¾c. to 20c. per pound for imported. There was some interest here in small lots, but large-volume business was practically non-existent. Consuming mills continued to show increasing preference for substitute products.

Meanwhile, the trade speculated on the effect of the recently-signed Anglo-Argentine trade pact. According to the provisions of the agreement, Great Britain will buy 2,700 tons of Argentine casein per year for the next five years at a price based on 13½c. per pound, Buenos Aires. Current offerings, f.o.b. the Argentine capital, range from 15c. to 15¼c. per pound.

In this country it was reported that New Zealand has tendered offers of surplus casein, which is said to be available at a price equivalent to that of Argentine material.

Commodity Credit Corporation for the week ended July 1 purchased a total of 8,515,268 pounds of spray process skimmed

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PITTSBURGH — Jos. A Burns
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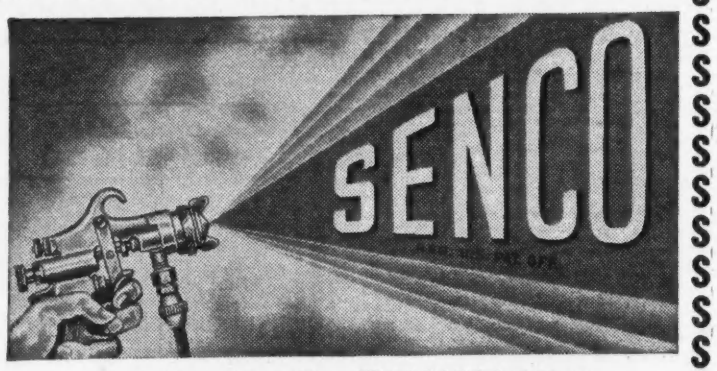
ST. LOUIS — Harry G. Knapp
SAN FRANCISCO — E. M. Walls
SEATTLE — Carl F. Miller & Co.
TORONTO, CAN. — A. S. Paterson



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Glue—Hide grades steadied at lower levels in the wake of recent 2c. reductions. Business was slow, due primarily to Summer layoffs. Stocks of low and medium tests were plentiful. Supplies of high-test hide glue were satisfactory. Bone glues were without feature, continuing firm and ample in a quiet market. Imports last week totaled 105 bales of gluestock from Recife.

Graphite—Arrivals during the past seven days aggregated 1,000 bags of graphite from Colombo and Mombasa.

Gypsum—Importations during the period under review were reported at 224 bags and 26,699 tons of crude gypsum from Walton, Dingwall, Liverpool, Little Narrows and Hantsport.

Lecithin—Stocks were ample in a slow market. Prices were maintained at 16c. to 18½c. for bleached and 15c. to 17½c. per pound for unbleached.

Soybean Protein—Effective yesterday, the price of chemically-isolated protein went up ½c. per pound for all quantities. The move was attributed to the higher cost of beans and lower oil prices, which together have resulted in marked increases in the cost of meal and flake, the protein raw materials. Following are current market listings on chemically-isolated protein:—40,000 pounds, 18½c.; 20,000 pounds, 18¾c., and smaller lots, works, 19c. to 22½c. per pound.

Quotations on the mechanically-refined grade remained firm at 5.75c. for 40,000 pounds, 5.9c. for 20,000 pounds and 6.05c. per pound for smaller lots.

Zirconium Silicate—Consuming inquiry was down slightly last week, due mainly to reduced ceramic operations. Stocks were good all along the line. Prices were steady at 3¼c. to 4¾c. for granular, at 4¾c. to 6¾c. for milled and at 11c. to 16c. per pound for refined.

Naval Stores

The record of the gum naval stores markets over the week ended July 8 was as follows:—

Gum Rosin

	Price per 100 lbs. Savannah Exchange (Low of range) *Mon.	Tues.	Wed.	Thurs.	Fri.	New York c.l., l.c.l., f.o.b. ex N. Y. whse. Friday
B	$5.75	$5.75	$5.75	$5.75	$5.75	$7.10 $7.85
D	6.00	6.00	6.00	6.00	6.00	7.10 7.85
E	6.36	6.36	6.36	6.36	6.36	7.58 8.33
F	6.36	6.36	6.36	6.36	6.36	7.58 8.33
G	6.48	6.48	6.48	6.48	6.53	7.58 8.33
H	6.48	6.48	6.48	6.48	6.53	7.58 8.33
I	6.48	6.48	6.48	6.48	6.53	7.58 8.33
K	6.48	6.48	6.48	6.48	6.53	7.58 8.33
M	6.48	6.48	6.48	6.48	6.53	7.58 8.33
N	6.50	6.50	6.50	6.50	6.53	7.58 8.33
WG	6.50	6.50	6.50	6.50	6.53	7.58 8.33
WW	6.62	6.62	6.62	6.62	6.61	7.65 8.40
X	6.62	6.62	6.62	6.62	6.61	7.65 8.40
	Drums					
Sales					340	
Receipts	1,013	330	779	483		
Shipments				2,869		
Stocks	28,906	29,236	30,015	27,632		

Gum Turpentine

	Savannah Exchange Bulk *Mon.	Tues.	Wed.	Thurs.	Fri.	New York (ret. dms.) tanks l.c.l. f.o.b. ex N.Y. whse. (7 lbs.) Friday
Per gal	.36½	.36½	.36¼	.36¼		.44 .54
Sales, bbls.	320		320	320		
Receipts, bbls.	233	345	453	749		
Shipments, bbls.	216	57	83	832		
Stocks, bbls.	4,391	5,179	3,549	5,466		

* Holiday.

Trade Briefs

Pierce & Stevens, Inc., lacquer manufacturer, has been granted a building permit by the city to enlarge its factory at 710 Ohio street, Buffalo, N. Y., at a cost of $15,000.

McDougall-Butler Company has contracted to purchase the factory at 2933 Main street, Buffalo, N. Y., formerly occupied by the Yale & Towne Manufacturing Company. The paint manufacturer will move to the new location.

Monsanto Publishes Data On Vinyl Plasticizers Use

A bulletin containing twenty-two plasticized polyvinyl chloride formulations noting the outstanding properties of each is currently available from Monsanto Chemical Company, St. Louis, Mo.

The formulations, based on extensive laboratory and field work, are representative of types used in manufacturing a wide range of articles, from shower curtains and raincoats, to upholstery material and floor tile.

Because of the variety of desirable properties plasticizers impart to polyvinyl chloride, the bulletin points out that best results, from a physical property and economic standpoint, are often obtained by using various plasticizer blends.

Although eight of the plasticizers suggested are from Monsanto's line of vinyl plasticizers, the bulletin recommends other plasticizers and stabilizers as well. It also includes a comprehensive list of polyvinyl chloride resin, plasticizers and stabilizers suppliers.

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Leaves Calif. Standard

G. C. Gester, chief geologist of the Standard Oil Company of California, retired on July 1 after thirty-two years with the company. He plans to continue work on geologic projects as a member of the California Academy of Sciences. Mr. Gester joined the geology department of Standard Company of California in 1917 after having served with the Southern Pacific Company, Kern Trading & Oil Company and Standard Oil Company of New York. He was named chief geologist in 1920.

Trade Briefs

Hercules Filter Corporation, Paterson, N. J., is currently making plastic filter frames that are claimed to be resistant to both acids and alkalis and to withstand high temperatures.

Dow Chemical Company has reported a high level of success with its program of evaluating plastic products made from its "Styron" plastic. Products are evaluated and suggestions for improvement, if any, are offered to the molder. Products accepted by the technical evaluation committee are entitled to use the "Styron" label.

Plasticizers 1948 Sales, Production Data Reported

Preliminary statistics on production and sales of plasticizers in 1948 have been reported by the United States Tariff Commission as follows, in pounds:—

	Production	Sales
Cyclic		
Total	106,567,000	89,057,000
Phosphoric acid esters—		
Tricresyl phosphate	14,973,000	14,214,000
Phthalic anhydride esters, total	77,629,000	63,141,000
Dibutyl phthalate	16,298,000	13,716,000
Diethyl phthalate	5,857,000	4,798,000
Dimethyl phthalate	1,673,000	953,000
Di-n-octyl phthalate	749,000	693,000
All other[1]	53,052,000	42,981,000
All other cyclic plasticizers[2]	13,965,000	11,702,000
Acyclic		
Total	38,184,000	30,593,000
Lauric acid esters—		
Diethylene glycol monolaurate	614,000	.....
1,2-Propylene glycol monolaurate	28,000	20,000
Oleic acid esters, total	6,195,000	4,403,000
Diethylene glycol monooleate	369,000	354,000
Butyl oleate	575,000	.....
Polyethylene glycol monooleate	447,000	216,000
All other[3]	4,604,000	3,833,000
Stearic acid esters, total	10,922,000	8,731,000
Butyl stearate	1,702,000	1,133,000
Glyceryl monostearate	4,259,000	2,864,000
All other[4]	4,961,000	4,734,000
All other acyclic plasticizers[5]	20,425,000	17,439,000
Grand total	144,751,000	119,650,000

[1] Includes statistics for phthalic anhydride, esters of phenols, cyclohexanols, fatty alcohols, monohydric alcohols, cellosolves, carbitols, and other dihydric alcohols and phthalyl glycolates.

[2] Includes statistics for toluenesulphonamids, synthetic camphor, polymerized styrene, coumaroneindene, and esters of phosphoric, sebacic, and benzoylbenzoic acids.

[3] Includes statistics for glyceryl mono-oleate, glyceryl trioleate, methyl oleate, and oleic acid esters of monohydric alcohols, glycols, and cellosolves.

[4] Includes statistics for stearic, monohydroxystearic, and chlorinated stearic acid esters of monohydric alcohols, glycerol, glycols, and cellosolves.

[5] Includes statistics for esters of adipic, citric, pelagonic, propionic, ricinoleic, sebacic, tartaric, acetylated acids, and other acids reacted with monohydric alcohols, glycols, glycerol, cellosolves, and other polyhydric alcohols.

Note—The statistics on sales of plasticizers in 1948 do not include the quantity and value of interplant transfers as did the statistics for 1947 and earlier years. The sales statistics given in this report, therefore, are not strictly comparable with the sales statistics given in earlier reports.

PRA Directors Meet in Chicago

The board of directors of Paint Research Associates discussed progress being made in its program of basic research at a recent meeting in Chicago. Plans were also formulated for future research on raw materials and finished paint product problems.

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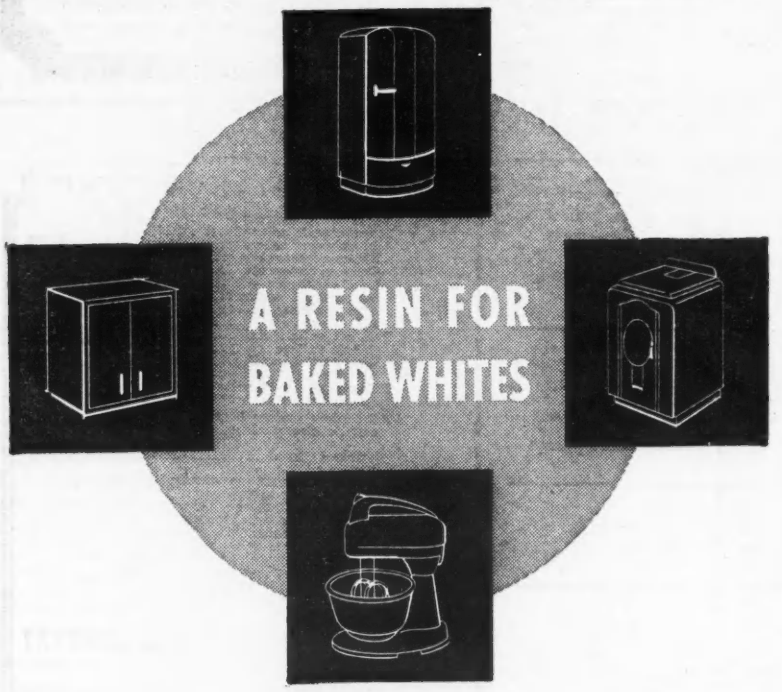

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AGENTS AND WAREHOUSE STOCKS IN PRINCIPAL CITIES

Miscellaneous Synthetic Organics '48 Data Listed

Preliminary statistics on 1948 production and sales of miscellaneous synthetic organic chemicals have been reported by the United States Tariff Commission as follows, in pounds:—

	Production	Sales
Cyclic		
Total	200,147,000	169,415,000
Benzoic acid salts—Sodium benzoate, tech. and USP	4,990,000	3,897,000
Benzoyl peroxide	.....	350,000
Cyclopropane	73,000	61,000
Flotation reagents, total	3,333,000	2,717,000
Diphenylthiourea	318,000	.....
All other[1]	3,015,000	2,717,000
Hexamethylenetetramine, tech.	12,870,000	.....
Insecticides, total	52,085,000	53,536,000
4,4'-Dichlorodiphenyl-1,1,1-trichloroethane (DDT)	20,240,000	30,000,000
4,6-Dinitro-o-cresol	202,000	88,000
Hexachlorocyclohexane,	18,382,000	14,057,000
All other[2]	13,261,000	9,391,000
Naphthenic acid salts (paint driers), total[3]	21,310,000	21,417,000
Calcium naphthenate	492,000	514,000
Cobalt naphthenate	4,705,000	4,755,000
Copper naphthenate	1,562,000	1,589,000
Lead naphthenate	10,813,000	10,774,000
Manganese naphthenate	2,301,000	2,488,000
Zinc naphthenate	1,161,000	1,053,000
All other	276,000	244,000
Photographic chemicals, total	3,629,000	3,618,000
Hydroquinone	2,588,000	2,582,000
All other[4]	1,041,000	1,036,000
Plant hormones, total	21,358,000	11,006,000
2,4-Dichlorophenoxyacetic acid (2,4-D)	16,553,000	7,099,000
2,4-Dichlorophenoxyacetic acid, sodium salt	1,536,000	1,066,000
All other[5]	3,269,000	2,841,000
Reagent chemicals	22,000	20,000
Rosin acid salts, total[6]	6,074,000	5,315,000
Cobalt resinate	22,000	25,000
Manganese resinate	273,000	277,000
All other	5,779,000	5,213,000
Tanning materials, synth	21,824,000	20,157,000
All other miscellaneous cyclic chemicals	52,579,000	47,121,000
Acyclic		
Total	11,762,202,000	5,123,404,000
Acetaldehyde	471,148,000	13,701,000
Acetic acid—		
Synthetic (100%)	396,038,000	142,509,000
Acetic acid salts, total	17,679,000	14,867,000
Aluminum acetate	244,000	271,000
Calcium acetate	2,000	2,000
Cobalt acetate	113,000	101,000
Zinc acetate	124,000	135,000
All other	17,196,000	14,358,000
Acetic anhydride, from all sources	779,193,000	169,905,000
Acetone, total	455,204,000	204,400,000
By fermentation	28,858,000	22,291,000
From isopropyl alcohol	426,346,000	182,109,000
Amines	44,100,000	10,016,000
Amyl acetates (90%)	10,419,000	.....
Amyl alcohols, total	19,192,000	7,797,000
3-Methylbutanol-1(Isoamyl alcohol)	45,000	51,000
All other	19,147,000	7,746,000
Butyl acetates	63,317,000	61,175,000
Butyl alcohols, total	297,140,000	160,282,000
Carbon disulphide	389,413,000	350,002,000
Cellulose esters and ethers, total	367,702,000	119,486,000
Cellulose acetate	432,310,000	.....
Cellulose nitrate	85,537,000	.....
Sodium carboxymethylcellulose	5,772,000	.....
All other	43,083,000	119,486,000
Diethyl malonate	727,000	.....
Dimethylurea	296,000	.....
Ethyl acetate (85%)	60,518,000	53,449,000
Ethylene glycol	366,721,000	265,262,000
Ethylene oxide	.....	37,376,000
Ethyl ether	36,832,000	26,861,000
Ethyl mercaptan	148,000	.....
Fatty acid esters, not included with plasticizers	1,244,000	964,000
Flotation reagents[7]	17,024,000	16,440,000
Formaldehyde (37% by weight)	617,187,000	418,233,000
Formic acid salts	8,502,000	5,555,000
Fumaric acid	2,691,000	.....
Fungicides: Dithiocarbamic acid salts and derivatives	8,100,000	5,926,000
Gases (poisonous, tear, etc.)	2,157,000	1,146,000
Fungicides: Dithiocarbamic total	1,775,891,000	766,050,000
Carbon tetrachloride	214,820,000	204,347,000
Chloroform, total	12,643,000	10,391,000
Technical	10,967,000	8,948,000
USP	1,676,000	1,443,000
Chlorinated paraffin	16,632,000	14,231,000
Ethyl bromide	597,000	.....
Ethyl chloride, tech	274,660,000	.....
Ethylene dichloride	235,893,000	58,703,000
Methyl bromide	1,233,000	1,023,000
Methyl chloride, refined	.....	13,690,000
Methylene chloride, refined	18,145,000	18,449,000
All other	1,001,845,000	444,811,000
Insecticides[8]	1,327,000	1,392,000
Isopropyl acetate	34,282,000	28,839,000
Isopropyl alcohol (100%)[8]	834,335,000	.....
Lactic acid, total	4,992,000	5,223,000
Technical	2,316,000	2,315,000
Edible and medicinal	2,676,000	2,908,000
Lactic acid salts—		
Sodium lactate	153,000	193,000
Linoleic acid salts, total[9]	2,350,000	2,414,000
Calcium linoleate	706,000	703,000
Manganese linoleate	472,000	416,000
All other	1,172,000	1,295,000
Methanol, synthetic	990,240,000	495,943,000
Oleic acid salts, total	195,000	211,000
Copper oleate	17,000	18,000
Lead oleate	96,000	104,000
All other	82,000	89,000
Oxalic acid	22,170,000	20,587,000
Pentaerythritol	20,517,000	16,084,000
Pentaerythritol tetranitrate	598,000	539,000
Research chemicals	31,000	25,000
Stearic acid salts, total	18,759,000	15,161,000
Aluminum stearates	8,077,000	6,049,000
Barium stearate	135,000	142,000
Calcium stearate	2,795,000	2,054,000
Lead stearate	434,000	414,000
Magnesium stearate	324,000	264,000
Zinc stearate	5,884,000	5,128,000
All other	1,110,000	1,110,000
Tall oil salts, total	944,000	924,000
Cobalt tallate	523,000	536,000
Lead tallate	247,000	240,000
All other	174,000	158,000
Thioglycolic acid salts—		
Ammonium thioglycolate	419,000	.....
All other miscellaneous acyclic chemicals	3,422,107,000	1,683,929,000
Grand total	11,962,349,000	5,292,819,000

[1] Includes data on dicresyltithiophosphoric acid and salts, di-o-tolythiourea and others.
[2] Includes data on chlorocamphene, chlordane, dichlorodiphenyldichloroethane (DDD) and others.
[3] Includes only data reported by manufacturers of paint driers who account for virtually all of the production and sales of these products. Quantities are given on the basis of solid naphthenate, resinate, or linoleate content.
[4] Includes data on catechol, N-N-diethyltoluene-2,5-diamine hydrochloride, N,N-diethyl-p-methylaminophenol sulfate and others.
[5] Includes data on isopropyl 2,4-dichlorophenoxy acetate, butyl 2,4-dichlorophenoxy acetate.
[6] Includes dithiophosphates, fatty amine esters, xanthates, and others.
[7] Includes tetraethyl phosphates and pyrophosphates, glycol sebacate, and others.
[8] Data which were reported on the basis of 88%, 91%, 95%, and 99% have been converted to 100% basis.

Note.—The statistics on sales of miscellaneous chemicals in 1948 do not include the quantity and value of interplant transfers as did the statistics for 1947 and earlier years. The sales statistics given in this report, therefore, are not strictly comparable with the sales statistics given in earlier reports.

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• Trade Briefs

Martin-Senour Company's "Nu-Hue" colors have been chosen to paint the hotel being constructed on Bahrein island in the Persian Gulf by Bahrein Petroleum, Inc.

National Gypsum Company held its annual outing for Buffalo area employees at the Automobile Club of Buffalo, recently. President Melvin H. Baker presented watches to seven employees who have completed 20 years of service with the firm.

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Ceramic—Plasticizer in compositions, containing synthetic resins, used as coatings for protecting and decorating ceramic articles.

Electrical—Plasticizer in insulating compositions, containing synthetic resins, used for covering wire and in making electrical machinery and equipment.

Glass—Plasticizer in compositions, containing synthetic resins, used in the manufacture of nonscatterable glass and as coatings for decorating and protecting glassware.

Ink—Plasticizer in rotogravure, stamppad, and textile inks.

Leather—Plasticizer in compositions, containing synthetic resins, used in the manufacture of artificial leathers and as coatings for decorating and protecting leathers and leather goods.

Metal-Fabricating—Plasticizer in compositions, containing synthetic resins, used as coatings for protecting and decorating metalic articles.

Miscellaneous — Plasticizer in coating compositions, containing synthetic resins, used for protecting and decorating articles of various kinds.

Paint, Varnish, and Lacquer—Plasticizer in paints, varnishes, lacquers, enamels, and dopes containing synthetic resins.

Paper—Plasticizer in compositions, containing synthetic resins, used in the manufacture of coated papers and as coatings for decorating and protecting articles made of paper or pulp.

Plastics—Plasticizer for pliolite, also for use in making laminated-fiber and molded articles and plastic materials from or containing synthetic resins.

Resins—Plasticizer for shellac, vinyl resins.

Rubber — Plasticizer in compositions, containing synthetic resins, used as coatings for protecting and decorating rubber goods.

Stone—Plasticizer in competitions, containing synthetic resins, used as coatings for decorating and protecting artificial and natural stone.

Textile—Plasticizer in compositions, containing synthetic resins, used in the manufacture of coated fabrics.

Wood—Plasticizer in compositions, containing synthetic resins, used as protective and decorative coatings on woodwork.

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Chemical—Claimed as acceptable alternate to fluorine, reacting vigorously with water, organic materials, hydrogen, sulphur dioxide, and many elements and compounds, showing many of the reactions of fluorine, useful as fluorine source in pilot plants conducting investigations in fluorine chemistry, a volatile liquid markedly giving the reactivity of fluorine, valuable supplement to the fluorine cells in laboratories.

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Pesticide—Insecticide claimed as best known control of cornearworm, deadly to flies, bedbugs, fleas, and roaches, possessing insect-killing power comparable to DDT and similar in action but safer to human beings, house pets, and farm animals.

Polyoxyethylenesorbitol Oleate-Laurate

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Pharmaceutical—Claimed valuable as an antipellagra agent.

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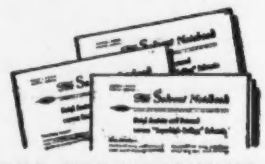

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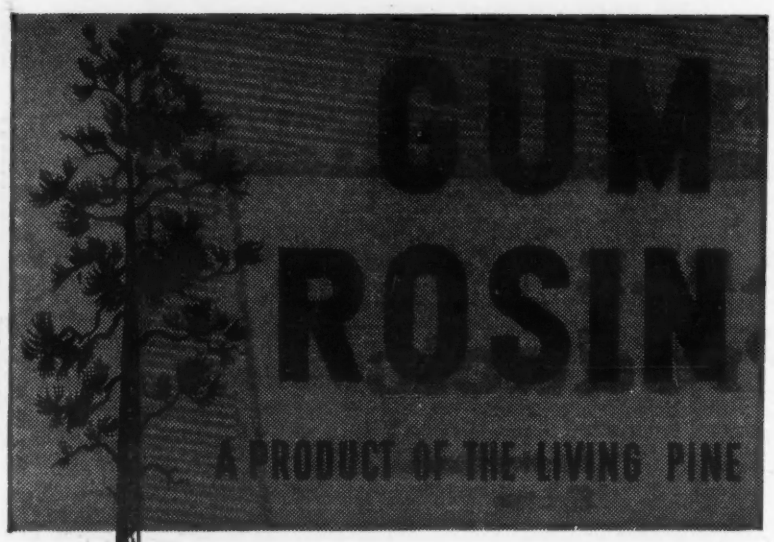

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Coal Chemicals Output Reported Higher in '48

Production of the principal coal chemicals by cokeoven operators increased during 1948, according to the Bureau of Mines, although yields per ton of coal carbonized decreased because of the poor quality of the coal charged and the high rate of oven operation.

Tar production increased 2,580,626 gallons over 1947, the bureau's report stated, and other materials gained over the previous year, as follows:—ammonium sulphate or equivalent, 34,763,170 pounds; crude light oil, 1,110,602 gallons, and gas, 23,590,346,000 cubic feet. Details of productions and sales of coal chemicals during 1948, including products of tar distillation conducted by cokeoven operators under the same corporate name, are as follows:—

	Production	Sales
Tar ..... gals.	738,755,106	402,407,480
Tar derivatives—		
Creosote oil, distillate as such ..... gals.	24,451,500	23,574,143
Creosote oil, in coaltar solution ..... gals.	10,533,183	9,464,370
Tar acid oil ..... gals.	14,553,270	14,772,782
Phenol ..... lbs.	8,423,440	8,414,711
Pitch of tar—		
Soft[1] ..... net tons.	388,599	3,394
Hard[2] ..... net tons.	248,316	.....
Ammonia—		
Sulphate—		
From coke-oven ammonia ..... lbs.	1,661,365,037	1,665,530,716
From purchased synthetic ammonia lbs.	61,498,005	60,720,455
Liquor (NH_3 content). lbs.	49,505,251	46,649,246
Sulphate equivalent of all forms[3] ..... lbs.	1,859,386,041	1,852,127,700
NH_3 equivalent of all forms[3] ..... lbs.	464,846,510	463,031,925
Gas—		
Used under boilers, etc. ..... M cu. ft.		33,152,844
Used in steel or affiliated plants M cu.gt.	[4]994,852,626	369,457,173
Distributed through city mains M cu. ft.		169,347,914
Sold for industrial use M cu. ft.		35,852,904
	[4]994,852,626	35,852,904
		607,810,835
Crude light oil ... gals.	[5]256,089,063	17,642,761
Light oil derivatives—		
Benzol—		
Motor ..... gals.	9,014,336	8,552,175
All other grades gals.	149,998,882	149,124,484
Toluol, crude and refined ..... gals.	28,448,259	28,481,798
Xylol, crude and refined ..... gals.	7,285,338	7,265,770
Solvent naphtha gals.	5,742,697	5,459,112
Other light oil products[6] ..... gals.	8,061,571	5,525,753
	208,551,083	204,409,092
Naphthalene, crude lbs.	105,816,670	102,827,490
Pyridine—		
Crude bases (dry basis) ..... gals.	416,594	383,824
Refined or 2[7] ..... lbs.	1,071,089	1,099,574
Sodium phenolate gals.	2,043,589	2,079,536
Sulphur ..... lbs.	6,844,528	7,644,030

[1] Softening point less than 100 degrees F. Includes some medium pitch of tar reported by two producers.
[2] Softening point over 160 degrees F.
[3] Excludes sulphate made from purchased synthetic ammonia.
[4] Includes gas used for heating ovens and gas wasted.
[5] Refined on premises to make derived products shown: 242,956,216 gallons.
[6] Benzol still residue, dicyclopentadiene, orthoxylene and vented vapors.

Paint Prices Reduction Movement Gains Recruits

Six major paint manufacturing firms last week announced price reductions on their lines of house paints, varnishes and other products, following the lead set in the previous week by the Pittsburgh Plate Glass Company; Woolsey Paint & Color Company, subsidiary of Sapolin Paints, Inc., and Vita-Var Corporation.

National Lead Company, New York, reduced its "Dutch Boy" blended house paint approximately 11 percent. The new price of $5.85 a gallon represents a decrease of 70 cents a gallon from the previous level of $6.55. Corresponding reductions also were made in "Dutch Boy" sash and trim colors and porch and floor enamel.

Martin-Senour Paint Company, Chicago, reported price reductions averaging approximately 10 percent throughout the firm's trade sales line, effective today. The lower prices will include house paints, wall paints, enamels, varnish and floor finishes but will not effect the company's "Nu-Hue" custom color paints or its automotive finishes.

Other manufacturers who reported lower prices were the Sherwin-Williams Company, Cleveland, a cut of about 10 percent at dealer level of all company products; the Watson-Standard Company, Pittsburgh, who reduced the retail price of its first quality house paint 45 cents a gallon and guaranteed prices of other products against a decline, retroactive to July 1; the M. J. Merkin Paint Company, New York, reductions ranging up to 10 percent on interior and exterior paints, varnishes and enamels, and Devoe & Raynolds, Inc., New York, who reductions will be announced about July 18 and made retroactive to July 2.

Three additional manufacturers, Pratt & Lambert, Inc., the MacDougall-Butler Company, and the National Manufacturing Company, all of Buffalo, N. Y., announced plans to reduce prices late last week.

As pointed out by all the manufacturers making the reductions, the new prices reflect not only the recent declines in prices of some raw materials but also a further anticipated drop in linseed oil costs.

St. Joseph Lead Names California Representative

The St. Joseph Lead Company, New York, has appointed Hawxhurst & Co., San Francisco, representative for sales of its lead-free zinc oxides in northern California. The Hawxhurst organization is located at room 1904, Mills Tower building San Francisco, telephone Yukon 6-3822. Stocks of the zinc oxides will be maintained in San Francisco and will be established in Oakland when required.

Duriron Publishes Booklet

The Duriron Company, Dayton, Ohio, has published a booklet describing its high silicon irons, "Duriron" and "Durichlor." Both products are said to have a high degree of corrosion resistance, and "Durichlor" is claimed to have increased resistance to hydrochloric acid.

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Perth Amboy, N. J. - Columbus 15, O.
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Oils, Fats and Waxes

Trend of prices for oils and fats continued downward last week. Price declines outnumbered advances and the index dropped to 110.8, compared with 114.5, the week previous and 226.8 for the corresponding week last year.

Most of the declines occurred in animal fats which have been unsettled and top heavy of late. Tallow and grease declined one quarter cent per pound, which was reflected in other animal products. Grease oils dropped 1 cent, neatsfoot oil, 2c. and tallow oil one quarter cent per pound. Cod oil was slashed 4 cents per pound as distressed oil for shipment at sharply lower prices attracted little buying interest.

Among the vegetable oil group, coconut declined one half cent as copra dropped $10 per ton. Soybean oil was lifted one eight cent and peanut oil was boosted three quarter cent, due to the sold up production and the stoppage of peanuts released for crushing purposes by the government. Reports were current that the government would confine releases of peanuts for relief purposes abroad.

In the drying oils group, linseed oil was advanced 1 cent per pound, for spot and July delivery. The higher price was based on the purchase of government owned flaxseed at $5.25 per bushel at western terminals. Tung oil was stronger and was advanced one half cent per pound, under a good demand and smaller offerings. Dehydrated castor oil was cut one quarter cent. Refined fish oil was inactive and offered freely at the recent decline.

Carnauba wax was firmer, as a result of a stronger Brazilian market. Wax producers were receiving financial support from the government and showed less disposition to accept bids below floor prices prevailing for shipment.

Market Trends

Prices Advanced

Carnauba wax, N.C., No. 3, 1c. per lb.
Linseed oil, 1c. per lb.
Peanut oil, ¾c. per lb.
Soybean oil, ⅛c. per lb.
Tung oil, ½c. per lb.

Prices Reduced

Castor, dehydrated, ¼c. per lb.
No. 3, ½c. per lb.
Coconut oil, ½c. per lb.
Cod oil, 4c. per lb.
Copra, $10 per ton.
Greases, ¼c. per lb.
oil, 1c. per lb.
Neatsfoot oil, 2c. per lb.
Tallow, ¼c. per lb.
oil, ¼c. per lb.

Comparative Price Indexes

(100=August 1, 1914)

Last week	Prev. week	Last month	Last year
110.8	114.5	121.1	226.8

(*For Current Prices see Page 9*)

Cottonseed Oil

Liberal liquidation in the July delivery as a result of circulating tenders for this month caused prices to drop sharply last week. July tenders to date totaled 70 contracts. Lack of interest in the tenders and liberal offerings of bleachable cottonseed oil for immediate delivery slightly above the July option unsettled the market. Most of the decline occurred in July, while futures were only slightly lower. Weaker lard and slow demand for refined oil from consumers were deterrent factors.

Interest in crude was light and the market was entirely nominal. Sales took place at 10½c. per pound, tankcars, Southeast and Valley early in the week for immediate shipment. Later sales took place 10¼c. southeast and Valley and 10c. Texas.

A second survey of southern cotton fields showed the boll weevil situation to be serious, in Mississippi, Louisiana, Arkansas, Alabama, Georgia, North and South Carolina and Texas, according to the Department of Agriculture. Reports from Texas indicated that grasshopper infestations were quite heavy in north central and northwest areas and use of poisoning was widespread.

Prices of refined bleachable prime summer yellow cottonseed oil in tankcars on the N. Y. Produce Exchange for the week ended July 8 follow:—

	Sales	Cents per pound High	Low	Close
July	228	12.89	11.60	11.85@11.90
September	203	11.47	11.05	11.37S
October	63	11.20	10.85	11.20S
December	201	11.18	10.90	11.15S
January				11.13@11.25
March	17	11.29	11.04	11.13@11.25
May				11.13@11.23

Total sales—712 tankcars, including switches.

Memphis.—Crude cottonseed oil nominal at 10¼c., and soybean oil at 9½c. per pound, tankcars, f.o.b. Valley. Trading light. Cottonseed meal in active demand and 41 percent held at $66 per ton, Memphis, July shipment. Stocks practically exhausted east of the Mississippi. Trade now drawing heavily on Texas production. Peanut meal practically unobtainable. Government exporting balance of peanut stocks.

Linseed Oil

Prices of raw linseed oil were lifted 1c. per pound, which were based on the cost of government owned flaxseed at $5.25 per bushel, f.o.b. Minneapolis. Tankcars were quoted at 24½c. per pound, New York delivery, and at 25.70c. drums, carlots, for July and early August delivery, while some sellers were holding at 1c. higher. some sellers offered second half August delivery at 21.60c. and September forward at 18.60 per pound tankcars. Trading was moderate for spot delivery.

CCC offered government owned flaxseed at $5.25 per bushel f.o.b. Minneapolis, and linseed oil at 23½c. per pound, tankcars, same basis, to commercial buyers. This flaxseed from the 1948 crop was acquired by the government at $6 per bushel and carrying charges raised the cost to $6.25. It was reported that some business took place in flaxseed and linseed oil at these levels.

India's 1948-49 flaxseed area is slightly lower than last season. Flaxseed area was indicated at 3,277,000 acres, compared with 3,252,000 acres, the second estimate for 1947-48, and 3,338,000 acres, the final total for the same year.

Minneapolis.—Buyers almost completely out of supplies and faced with a brisk demand for paint at lower price levels, were anxious to replenish stocks of oil and there was a fair to good trade in immediate shipment supplies. A lot of the business was in cooperage lots, inter-sprinkled with tankcar business and there was an excellent volume of warehouse business in oil. Prices were set at 23.9c. per pound, zone 1, by government offerings for July and the first half of August. Last half August oil was quoted at 21.5c. per pound and September at 18c. a pound. Large oil buyers appeared to be fishing in the market, making an occasional purchase for late summer shipment but generally waiting further developments.

Shipments of linseed oil, in pounds, were as follows:—

	1948-49	1947-48
This week	4,680,000	6,060,000
Since Sept. 1	274,398,000	325,514,000

Flaxseed—Moderate sales of government owned flaxseed were reported at $5.25 per bushel, f.o.b. Minneapolis. This price was set by CCC.

Minneapolis.—The flaxseed price at Minneapolis was set at $5.25 on July 1 by offerings of the Commodity Credit Corporation. Crushers were in the market for some seed at this price. Linseed oil market was set at 23.9c. per pound, in tanks, zone 1 by CCC and crushers fell in line as far as prices were concerned. At the present moment crushers are dickering for flaxseed supplies from CCC, anxious to get stocks for immediate use and trying to maintain operations at a fair level, also to satisfy the rather urgent demand for spot oil. After announcement of the government's $5.25 price a few scattered sales of flax for August arrival appeared on the cash books at Minneapolis. A total of 135,000 bushels of flax was purchased at $3.99 (Minneapolis support price) for delivery during August. Crushers were still bidding $3.60 per bushel for seed delivered at Minneapolis by October 15 but no purchases were recorded. Flax crop news was generally good up to the weekend of July 4 but hot winds and scorching sun caught many flax fields in the bloom or early boll stage and crop experts are fearful that much damage was experienced. Some are of the opinion that the crop has been reduced from an estimated 45,000,000 to 47,000,000 bushels down to 40,000,000 to 42,000,000 bushels.

Shipments of flaxseed, in bushels, were as follows:—

Bushels—	Receipts 1948-49	Receipts 1947-48	Shipments 1948-49	Shipments 1947-48
This week	122,400	339,700	18,700	15,300
Since Sept. 1	28,113,300	21,444,800	5,797,700	3,776,600

Other Vegetable Oils

Castor Dehydrated — Prices were reduced ¼c. per pound for dehydrated and ½c. for No. 3, technical. Bodied oil was quoted at 21c. per pound and unbodied at 20c. per pound, tankcars. Drums 1c. to 1½c. higher, according to quantity. No. 3 oil was held at 16c. per pound, tankcars, and 17c. drums, carlots.

Coconut — Market was easier, and declined ½c. per pound for immediate and July shipment. Crude oil was quoted at 14½c. per pound, tankcars, f.o.b. Pacific coast, for immediate and 14c. per July. August shipment was nominal at 12c. to 12½c. same basis.

Copra — Trading was reported quiet. Prompt shipment declined to $150 for short ton, c.i.f. Pacific coast, off $10 for the week. Copra exports from Indonesia totaled 28,410 tons in March, against 20,662 tons in February and 33,755 tons January. The bulk of shipments went to the

For Late Market Developments, See Page 4

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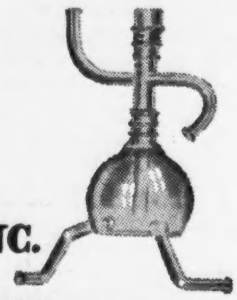
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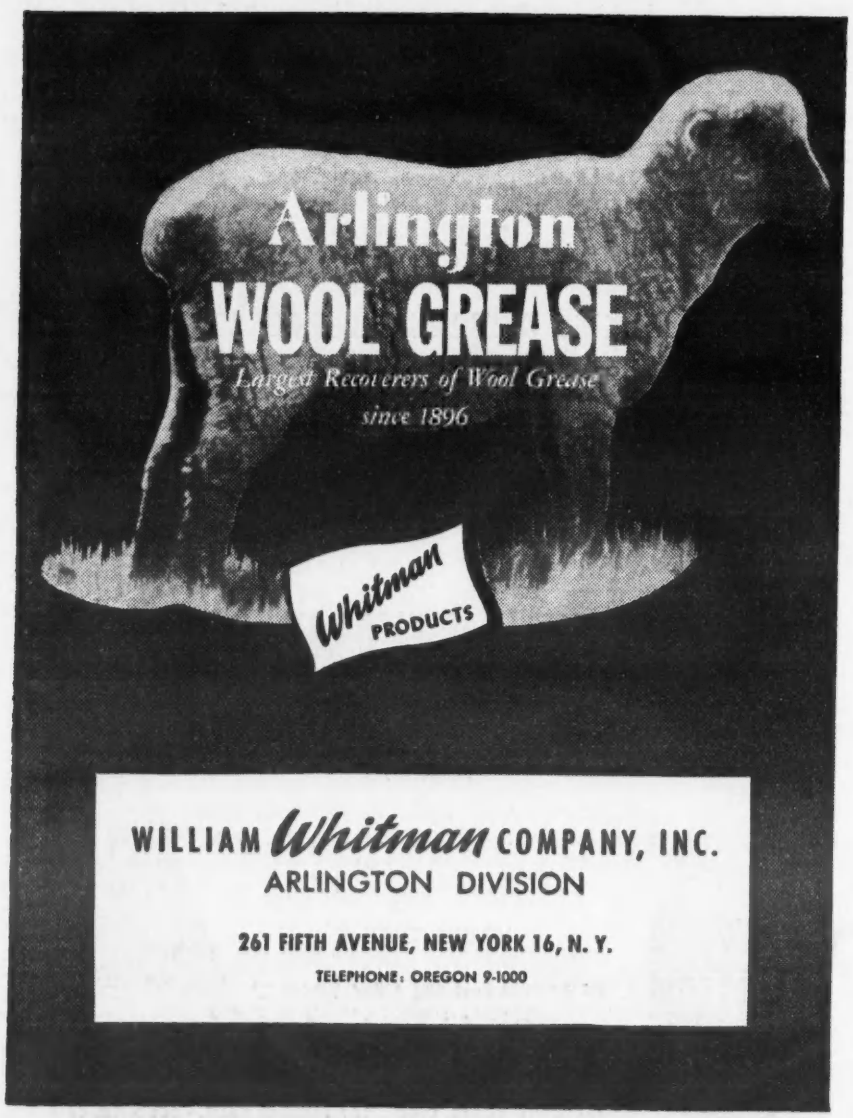

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Netherlands and only 2,134 tons to the United States during March.

Corn—Offers were light and the market held steady. Crude oil was nominal at 11¼c. per pound, tankcars, f.o.b. mills. Refined oil was unchanged at 13½c. per pound, same basis.

Oiticica—Tone of this oil was improved with the advance of linseed and tung oils. Trading was mainly in small lots. Liquid was quoted at 17½c. to 18½c. per pound, drums, as to quantity and seller.

Olive — Business lacked improvement and the market remained more or less nominal. Spanish oil was quoted at $3.50 to $3.60 per gallon, drums, duty paid for spot delivery. Moroccan oil ranged from $3.45 to $3.50, same basis.

Palm—Consuming was inactive. Limited stocks of spot were quoted at 15½c. per pound, drums, on spot. Tankcars for early August delivery were quoted at 11.60c. per pound, New York basis. There was an increase of two palm oil estates to 49 in the Federation of Malaya during 1948. Total area in oil palms were 83,320 acres, an increase of 3,191 acres for 1948. The palm oil industry is almost entirely foreign controlled, Europeans owning 35 of the 49 estates.

Peanut—With prospects that no more old crop peanuts would be released by the government for crushing purposes, coupled with sold-up production, resulted in a stronger market, and prices were lifted ¾c. during the week. Crude oil was sold at 13¼c. per pound, tankcars, f.o.b. mills. Refined oil also was higher and held at 16¾c. per pound, tankcars, New York delivery.

Soybean—Offerings were lighter and quotations were raised ⅛c. per pound. Sales of crude oil were reported at 9¼c. and 9⅛c. per pound, tankcars, mills, July-August shipment. Refined oil was firmer and quoted at 12⅛c. per pound, tankcars, New York delivery.

Tung—Light offerings and a good consuming inquiry stiffened this market, and trading took place at an advance of ½c. for the week. Tankcars were sold at 20½c. and 20¾c. per pound, tankcars, New York, with sellers maintaining 21c. late in the week. Domestic oil was firmer and quoted at 20c. to 20½c. per pound, tankcars, f.o.b. southern mills.

Los Angeles—San Francisco dock strike is affecting local price and supply of coconut and tung oils; supply still adequate.

Oil in tankcars, f.o.b. Los Angeles, quoted as follows:—

Castor, cold pressed, 17c. per pound; coconut, crude, 15c. per pound; cottonseed, crude, 10.5c. per pound; peanut, crude, 13c. per pound; sesameseed, crude, none; soybean, crude, 10.75c. per pound; tung, 21c. per pound.

Fats and Greases

Greases—Market was easier and all grades were reduced ¼c., except yellow, which declined the week previous. Domestic demand was light and scattered sales were reported at the decline. Choice white was quoted at 5½c. per pound, loose, delivered; yellow, 4⅛c. and house at 4c.

Lard—Trading was reported slow. Market was unsettled and entirely nominal. Export inquiry also slackened and limited sales for export were reported at 12½c. per pound, tierces and smaller containers f.a.s. New York a decline of ½c. for the week. Cash lard was nominal at 10⅞c. per pound, tierces, Chicago.

Tallow—Prices were cut ¼c. per pound. Consumers purchased limited quantities of the better grades at the decline. Export business was less active and spotty. Fancy was sold at 5¾c. per pound, loose, delivered; extra at 5½c. and special at 5c., same basis. Fancy was quoted nominally for export at 7⅛c. to 7¼c. per pound, drums, f.a.s.

Animal Oils

Degras—Tight supply condition still prevails in this market. Supplies of crude and refined grades were in small supply and were closely held at current levels.

Grease Oils—Lower cost of pressing stock caused prices to drop 1c. per pound. Business was slow. Common, No. 1, was reduced to 9¾c. to 10¼c. per pound, drums, as to quantity; extra winter strained, 10¾c. to 11¼c., and prime burning, 12¼c. to 12¾c., same basis.

Oleo Oil—Trading was reported light and spotty. Extra oil was nominal at 12c. to 12½c. per pound, tierces.

Oleo Stearine—Market was inactive and nominal at 9½c. per pound, barrels, New York.

Fish Oils

Cod—Buying interest continued slow. Offerings of distressed oil for shipment from Newfoundland depressed the market. Oil on the spot was lower and quoted nominally at 12c. per pound, drums.

Crude Fish—Inquiry for new crude menhaden oil continued inactive. Market was nominal at 5½c. per pound, loose, f.o.b. works.

Refined Fish—Business was confined to small drum lots. Quotations were unchanged on the basis of light pressed at 9.2c. per pound, tankcars.

Fatty Acids

Red Oil—Market was quiet, with quotations unchanged and steady at the recent decline of 1c. per pound.

Stearic Acid—Small lot buying was reported for immediate needs. Prices were unchanged at the recent decline.

Cake and Meal

Cottonseed Meal—Prices continued to advance slowly since most mills have completed operations for the season. Little cottonseed meal was available for shipment, and some mills in the southeast are buying scattered cars to supply local demand. Sacked cottonseed meal 41 percent was at quoted $65 per ton Memphis. No cake was offered. Alabama mills reported sold up, and only scattered cars were offered in Georgia with prices ranging from $67.50 to $68 on 41 percent sacked meal and 36 percent $5 less. There has been a small tonnage of new crop cottonseed meal traded from the Rio Grande Valley in Texas at $54 per ton sacked July shipment. This is the first new crop meal quoted.

Linseed Meal—With production sold ahead for prompt shipment, market remained firm. Demand was active for immediate delivery.

Minneapolis.—Most of the crushers have merchandised their July production on meal and report a steady demand for spot supplies at firm prices. Meal quoted at $51 to $53 per ton, bulk, f.o.b. Minneapolis, July-August shipment.

Shipments of linseed meal, in pounds, were as follows:—

	1948-49	1947-48
This week	10,280,000	9,960,000
Since Sept. 1	275,540,000	253,750,000

Peanut Meal — The government withdrew peanuts for release for crushing last week. It is generally believed that no more peanuts will be released for crushing from old crop production which will mean very little or no more peanut meal until new crop peanuts become available sometime in October. It was necessary for mills to cover all shortages from what few peanuts were released recently. Last sales were reported at $57 per ton, f.o.b. mill points, but now it is practically impossible to get offerings.

Soybean Meal—Meal continued firm, and quoted at $73 bulk Decatur for July shipment. All southeastern mills were fairly well sold up for July, and were not offering deferred shipments.

Waxes

Beeswax — Improved demand for San Domingo crude and light offers advanced this grade 2c. to 3c. to 48c. to 49c. per pound, spot. African crude was quoted at 45c. to 47c. per pound, as to seller and quantity. Inquiry for refined grades was slow.

Candelilla — This market remained steady with sellers maintaining union wax at 46c. and up per pound, according to quantity. Non union was still available at 43c. to 44c. per pound, depending upon seller and quantity.

Carnauba—Financial support received by producers from the Brazilian government has stiffened primary markets and shippers were reported to have turned down bids below the floor levels. Prices were higher for stocks on the spot. No. 3, crude ranged from 81c. to 83c. per pound, and refined, 85c. to 86c., depending upon seller. No. 1 yellow was held at $1.08 to $1.10 and No. 2, at $1.06 to $1.08. Chalky was unchanged at 76c. to 77c. per pound, as to seller.

Fats, Oils Utilization Research Need Emphasized

A need for research designed to increase the utilization or market outlets for fats and oils is emphasized in recent recommendations of the oilseeds and peanut advisory committee for new work under the research and marketing act. The recommendations, in a report resulting from the committee's recent meeting in the Department of Agriculture, are largely for work to be initiated in fiscal 1951.

The committee, in reviewing active and proposed work in the broad fields of utilization and to a lesser extent some of the marketing work, gave consideration to the recent decline in demand for fats and oils and the resulting need for increased research on the products. It expressed concern over the rapid increase in the use of synthetic detergents in the place of soap made from natural fats and oils and the use of chemical emulsifiers as a substitute for shortening and lard in the baking industry.

Glidden Appoints Two To Soya Division Posts

The Glidden Company, Cleveland, has appointed Clayton I. Vogt plant superintendent of its new soya extraction plant in Indianapolis and Malcolm M. Darling superintendent of the grain elevator being constructed adjacent to the plant.

Mr. Vogt, who has served as chemical engineer at the company's soya products division plant in Chicago for the past two years, will assume his new post late this summer.

India Reports Various Chemicals Output in 1948

The information service of the Government of India has published production figures for various materials in 1948, as compared with 1947. Among them are the following, in tons unless otherwise indicated:—

	1948	1947
Sulphuric acid	80.000	60.000
Superphosphate	21.358	5.000
Caustic soda	4.383	3.314
Soda ash	28.200	13.624
Chlorine, liquid	1.800	1.706
Bleaching powder	2.836	2.550
Alcohol—		
Industrial, gals	4.900.000	4.820.000
Power, gals	3.540.000	2.200.000

Raabe Heads Heart Fund Campaign

C. E. Raabe, president of the Woolsey Paint & Color Company, has been named chairman of the National Yacht Club campaign to raise more than $500,000 to combat heart disease on behalf of the American Heart Association. The campaign will be conducted through boat and yacht clubs throughout the nation and will be assisted by more than 5,000 marine supply dealers.

A-D-M Publishes Soybean Data

Archer-Daniels-Midland Company, Minneapolis, has published a booklet entitled "Cracking the Soybean" which details the history of the soybean industry in this country and lists the various products made principally or partly from soybean oil and meal. The publication also tells of the research activities of the company on soybean products and describes the uses of the products.

Chase Driers Names Trask Midwest Agent

Chase Driers & Chemicals Division, Industrial Lining Engineers, Pittsburgh, has appointed Arthur C. Trask & Sons, Chicago, sole agent and distributor in the Chicago and middle western territory. The Trask organization will maintain complete stocks of all Chase driers at its Chicago warehouse.

Binney & Smith Assigns Leonard to Akron Office

The Binney & Smith Company, carbon black pigments manufacturer, New York, has appointed M. H. Leonard technical service representative in its Akron, Ohio, office. Mr. Leonard was formerly associated with the Firestone Tire & Rubber Company and had served as chief chemist in its Buenos Aires plant.

Trade Briefs

Coaltar production in Austria totaled 37,000 metric tons in 1948, but is still said to be inadequate to meet domestic requirements.

Glidden Company's shipments from its new margarin plants near Macon, Ga., will be handled from a new station established by the Central of Georgia Railway at Glidden, Ga.

Plax Corporation, a division of the Hartford Empire Company, Hartford, Conn., has developed a method of treating pine trees that is reported to enable gum turpentine farmers to realize a substantial increase in profits.

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Others by Day, Wolfe, Etc., 200 lb. to 5,000 lb.

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3—#2, #7 Sweetland Filters.
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2—Pfaudler 75, 100 gal. glass-lined, jacketed, agitated Kettles.
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25—S.S. Kettles, Tanks, 50 to 500 gal.
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12—Ross Engineering 2-Truck Atmospheric Steam Heated Dryers, 500 sq. ft. each.
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1—Jay Bee 2UX Hammer Mill, 30 HP.
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3—Baker Perkins Lab. 1 and 2 gal. S.S. Double Arm Jacketed Mixers.
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3—Sperry 30", 24" cast iron Recessed Filter Presses, 30 chambers.
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Kaolin Production: 1948

Production of kaolin in the United States during 1948 reached a record total of 1,568,848 short tons, a 10 percent increase over 1947, according to the Bureau of Mines. Georgia produced more than any other state, furnishing 72 percent of the total tonnage. South Carolina was second; Alabama, Florida and North Carolina, combined, third, followed by Pennsylvania, California, Virginia, Utah and Illinois.

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IMMEDIATE DELIVERY

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2—Gedge gray 800 lb. blenders.
1—Sharples #8 super centrifuge, MD.
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1—Struthers-Wells 100-gallon stainless steel jacketed and agitated still.
3—Abbe porcelain lined pebble mills, one jacketed.
3—Like new Baker Perkins 150-gallon double arm mixers—MD.
2—New 70-gallon s/s vacuum stills.
12—Horizontal steel 10,000 gallon tanks.
2—Apron dryers—single and 3 pass—60' long.
3—W & P 2½ to 500-gallon double arm mixers.
2—Pfaudler 200-gallon reactor—jacketed and agitated—MD.
3—Standard Knapp & Ferguson shipping case carton gluer and sealers.

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1—New Pfaudler Stainless Steel Jacketed Agitated Reactor, 150 gallons.
1—New Glasscote 1000 gallon Jacketed Agitated Glass Lined Reactor.
1—Code Welded Type 316 Stainless Steel Jacketed Reactor, 1000 gals., with Agitator and Exp. Pf. Motor.
1—Pfaudler Glass Lined Jacketed 200 gal. Kettle.
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3—Stainless Steel 500 gal. Vertical Tanks.
1—Fowler Stainless Steel 9 Stem Rotary gal. Filler.
1—Sperry 42" Wood Plate & Frame Filter Press, Hyd. Closure, 57 Ch., 1¾" Cake.
1—Shriver 12" Lead Plate & Frame Filter Press, 14 Ch., 1" Cake, Cl. Dely.
1—Stokes 30" x 8' Rotary Vacuum Dryer.
3—Fitzmills Model "D" Stainless Steel, 5 H.P. 3 Ph. Exp. Pf. Motors.
18—New 100 gal. Stainless Steel Clad Jacketed Kettles.
1—Stainless Steel Condenser, 170 sq. ft.

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2-Spencer Turbo Blowers 400 CFM, 16 oz.
No 2 Sweetland Filter.
B.-4-Laughlin Cont. Filter.
54"x30' Rotary Dryer. 54"x25' Louisville
24", 40", 48" Tolhurst Centrifuges.
850 gal. Autoclave.
8 cu. ft. Ribbon type Mixer.
A.C. Dodge 7x9 Jaw Crusher.

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1—Double shell direct fired ROTARY DRYER, inner shell 5'6" dia. x 59' long, outer shell 10' dia. x 40'6" long, complete with motor drive, oil burning equipment, instruments and accessories.
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1—ROTARY VACUUM DRYER, 5' x 33'.
3—7500 gal. STEEL KETTLES, with copper coils, closed. Agitated. 10' dia. x 12'6" deep, 15' overall height.
1—2000 gal. STEEL KETTLE, jack., open top, agit., 7' dia. x 7'6" deep.
2—No. 10 SWEETLAND FILTERS, 3" centers, iron or copper leaves.
2—BAKER PERKINS MIXERS, size 17. Jacketed, 200 gallon.
3—18" x 50" RUBBER MILLS, with motor and drive.
1—KILBY 39" x 39" cast iron FILTER PRESS, washing type, plate and frame, 47 chambers.
3—36" x 36" SPERRY 60-plate FILTER PRESSES, cast iron, recessed, center feed, open delivery, hydraulic closing, hydraulic pumps.
1—UNUSED triple effect GOSLIN-BIRMINGHAM EVAPORATOR, stainless steel shells and tubes, 850 sq. ft. per effect.
6—9'6" dia. x 18'6" long stainless steel lined, steam jacketed CRYSTALLIZERS, with 4" s/s agitator coil, worm gear drive.
4—UNUSED Bird high speed stainless steel CENTRIFUGALS, suspended type, each with 40" x 24" deep s/s basket, s/s casing and curb, each with direct connected 1800/900 RPM. 3/60/440 volt direct connected tefc motor.
2—UNUSED 10'6" x 16' FEINC FILTERS, wood, type 316, stainless steel and silicon bronze construction.
2—UNUSED 8' x 10' OLIVER PRECOAT ROTARY CONTINUOUS VACUUM FILTERS, all silicon bronze construction, each with bronze drum, valve, trough and piping.

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Lubricating Oil Defoaming Process Described in Report

Lubricating oil can be satisfactorily defoamed by recycling it through a column of activated charcoal, according to a report prepared for the national advisory committee for aeronautics and now available to the American public from the Office of Technical Services. The report notes that despite the success of the charcoal defoaming method, the relatively little knowledge possessed concerning the nature of the action, or the constituents responsible for foaming, makes further study of this subject advisable.

"Attempts to Defoam Existing Oils by Processing," twenty-six pages, including graphs and tables, may be obtained without charge while supplies last from the National Advisory Committee for Aeronautics, Washington 25, D. C., as their Technical Note 1845. When printed supplies are exhausted it may be ordered as PB 97220 from the Library of Congress, Photoduplication Service, Publication Board Project, at $3.75 in photostat form, $2 in microfilm. Checks should be made payable to the Librarian of Congress.

Medusa Cement Elects Two

The Medusa Portland Cement Company, Cleveland, Ohio, has elected Harry L. Berne executive vice-president and general manager. Willett J. Worthy has been named vice-president in charge of manufacturing.

FOR SALE

Pebble Mills: 6x5', 5x4', 4x5', 4½x5'.
Reactor: 200 gal. Pfaudler, jack., agit.
Centrifugal: Rochester 30" suspended.
Vacuum Mixer: W. & P., 20 gal.
Dryers: 6x30' Davenport hot air rotary.
Vacuum Pans: 50 gal. and 6' copper.
Mixer: Day Cincinnatus #2, 28 gal.
Fillers: Tube-Jar, hand and motor dr.
Mixer: Day Imperial #30, stainless steel.
Tablet Machines: Colton 2B, 3B, 4, 5T.
Filter Presses: 24" C.I., 24" wood, 7" C.I.
Mixers: Lead and Color, O. & T. 100 gal.
Kettles: Stain. Steel, all sizes. (New).
Powder Mixers: Day 100, 400, 1,000 lbs.
Powder Mixers: 20-20 Burton, Broughton 5 hp.
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Dryer: Stokes Vac. Shelf, 10 40x42 shelves.
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2—9" x 24" motor driven roller mills.
1—16 x 40 roller mill.
3—12 x 30 roller mills.
PONY MIXERS from 2½ gallons to 40 gallons.
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1—Paterson 6' x 5' watercooled steel ball mill.
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1—Tolhurst 30" Centrifuge, center slung, rubber lined basket.
1—Tolhurst 20" Centrifuge, rubber lined basket.
1—Swenson rubber lined vacuum Crystallizer, 4'x16'.
4—Shriver 7"x7", lab. Filter Presses, closed delivery.
1—Plate Fabricator jacketed kettle, 900 gallons, 125 PSI.
1—Pfaudler Aluminum jacketed reactor, 1,300 gallons. (New.)
1—Pfaudler Aluminum jacketed Reactor, 250 gallons. (New.)
2—J. H. Day Heavy Duty Kneaders 50 gallons.

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New and used high pressure Steam Boilers, 2 H.P. to 250 H.P.
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2—Ribbon Type Mixers, steam jacketed.
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1—150 gal. Jacketed Glass-Lined Tank with agitator.
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6—Stokes Rotary Tablet Machines, Model RD-4.
10—New Sharples Oil Purifiers.
6—New Clevon Can Filling Machines.

SPECIAL 1—Patterson Pebble Mill, 36" diam. x 42", silex lined—like new.
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1—Hardinge Conical Ball Mill, 4½'x24".
1—Denver 4'x3' Rotary Vac. Filter, Motor Driven, complete.
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2—Devine No. 3 Vac. 4 Shelf Dryers.
1—Devine Vac. Shelf Dryer, 7 shelves.
1—Badger 42" dia. Monel column.
1—Buffalo Vac. Drum Dryer, 24"x26".
1—Century "Giant" 2 HP. 4 speed Vert. Mixer.
4—Abbe Pebble Mills, 6'x8', 60"x48".
8—Abbe Jar Mills, Lab. to 2 gal. sizes.
1—U. S. Stainless Colloid Mill, 5 HP.
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3—Duriron 3"x2" Centrif. Pumps.
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3—Rotary Cutters, 5 & 40 HP.
8—Hammer Mills, 3 to 50 HP.
1—Stedman 32" Single Roll Crusher.
6—Centrifugals, 26", 30" & 40".
4—No. 0000 and No. 0 Raymond Mills.
6—Lead & Paste Mixers to 300 gals.
2—Worth 12"x12"x12" Vac. Pumps.
2—DeLaval Mult. Clarifiers, 300 & 301.
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AUTOMATIC LINE FOR FILLING POWDER INTO CARTONS—60 per min.
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7—Portable Cap Tighteners, Elec. op.
5—Bottle Rinsers, 60 & 72 spout.
3—Ermold Auto. 6-wide Labelers.
1—Auto. Rotary Duplex Labeler.
6—Auto. Rotary Simplex Labelers.
4—Auto. Wrap Around Labelers.
6—Semi Auto. Spot Labelers.
1—Standard Knapp Top & Bottom Case Gluer and compression unit.
3—Acme Elec. op. Case Stitchers.

PROCESSING EQUIPMENT

3—Mikro Pulverizers, #4, #1, Bantam.
1—Abbe Double Jar Mill.
2—Abbe Pebble Mills, 6' x 8'.
1—Allis Chalmers Continuous Ball Mill, steel liner, 8' x 7', 250 HP motor.
2—Shriver 24" Cast Iron P&F Filter Presses, open dely, 54 chambers.
1—Swenson Precoat Rotary Vacuum Filter, 8' x 8', acid proof, lead & rub.
1—Sweetland No. 10 Filter, C.I. Body, bronze leaves, 500 sq. ft.
1—Dopp 300 gal. cast iron jacketed and agitated Kettle.
25—Stainless and Stainless Clad Kettles, 30 to 500 gal., 40#, 100# jkt. pr.
35—Stainless Steel open top Tanks, 30 gal. to 500 gal., with some side mixers.
100—Horiz Welded steel tanks, mammut line 3,100 & 6,500 gal.
7—Lead & Paste Mixers, 80 gal.
2—Ross 3-Roll Mills, 16 x 40.
4—Double Arm Jktd. Mixers: B-P 15 gal. vac.; Day 25 gal.; W&P 100 gal.; Read 250 gal.

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Do not wait until conditions further limit prospects of disposing of top-heavy inventories. will purchase surplus unshipped commodities all kinds. Particularly interested in pigments, chemicals, dyes, colors, waxes, drugs, pharmaceuticals, etc. OPD 654.

Solvents—Large eastern solvent consumer solicits correspondents with sources for special or odd-lot solvents and blends; minimum units 500 gallons. For specifications and other details, write OPD 655.

PHOSPHATE LEASE

United States Department of the Interior, Bureau of Land Management, Washington 25, D. C. Notice is hereby given that the lands listed herein are offered for phosphate lease, through sealed bids, at a minimum bid of $1 an acre, on the terms hereinafter specified, to qualified bidders of the highest cash amounts per acre as a bonus for the privilege of leasing under the phosphate provisions of the act of February 25, 1920 (41 Stat. 440, 30 U.S.C., sec. 211), as amended. All bids must be submitted to the Director, Bureau of Land Management, Washington 25, D. C. on or before 1 p.m., Eastern Daylight Saving Time, on the date set out herein. Each bidder must submit with his bid certified check, money order, or cash, for one-fifth of the amount bid by him, and file evidence of qualifications as prescribed in 43 CFR 196.7 (b), (c) and (g), if a current showing in that regard has not been filed. The envelopes shall be plainly marked that they are not to be opened before the date and hour set out herein and should show that the bid is for phosphate lease. No bids received after the hour fixed herein for receiving bids will be considered. Prior to the issuance of a lease, the successful bidder must pay the remainder of the bid made by him and the rental at the rate of 25 cents an acre for the first lease year, and submit lease forms and a bond in the sum of $5,000 (43 CFR 196.12). Deposits of other bidders will be returned upon the acceptance of the successful bid. Bidders are warned against committing any act by intimidation, combination or unfair management, to hinder or prevent bidding at the sale in violation of section 1860, Title 18, United States Code. The right is reserved to reject any and all bids. The lands to be leased are in the State of Utah, and are the W½SW¼ sec. 3, E½SW¼, SE¼ sec. 4, T. 8 N., R. 5 E., S.L.M, Utah, 320 acres. Terms: A minimum investment of $10,000 during the first three years of the lease; a royalty of 5 percent of the gross value of the phosphate or phosphate rock and associated products recovered and sold, or otherwise disposed of at the point of shipment to market, which royalty shall not be less than 25 cents per ton of 2,000 pounds. A royalty of 10 percent of the gross value of vanadium and associated or related minerals recovered and sold or otherwise disposed of; a royalty of 10 cents a ton of 2,000 pounds of silica and limestone or other nonphosphate rock mined and sold, used, or otherwise disposed of from the leased land under sec. 4 of the act of June 5, 1948 (62 Stat. 239); a minimum production of 5 tons an acre beginning with the fourth lease year. It is expressly agreed that the Secretary of the Interior may establish reasonable minimum values for the purpose of computing royalty on any phosphates or phosphate rock and associated products, due consideration being given to the highest price paid for a part or majority of the production of like quality products from the same general area, the price received by the lessee, posted prices, and other relevant matters. Royalty shall be payable monthly within 30 days from the expiration of the month in which it accrues. The minimum production will not be reduced or waived at the lessee's request except as provided in 43 CFR, 196.5, 196.6, 191.25, or 191.26, or upon a satisfactory showing that market conditions are such that the lessee cannot operate except at a loss. The lease will be cancelled if production, or the construction of production facilities, including processing plants, is not commenced by the beginning of the fourth year of the lease. Bids must be submitted on or before 1 p.m., Eastern Daylight Saving Time, August 3, 1949. Marion Clawson, Director.

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For sale:—Contents of small paint plant located in Minnesota. Also transfer of approximately 2 years' lease on building. Plant equipped to produce approximately 12,000 gallons trade sales paint per month. Bargain to responsible party. OPD 644.

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Obituaries

Herbert S. Austin

Herbert S. Austin, retired coordinator of pipeline systems for the Standard Oil Company (New Jersey) and one-time president of the Tuscarora Oil Company, Ltd., died July 5 of a heart attack in Easton, Md., while driving to his home in Elizabeth, N. J. He was sixty-five years old.

Since his retirement from Standard Oil in 1940, Mr. Austin had operated offices as a consulting engineer in pipelines and petroleum installations, specializing in work in foreign countries. During the recent war he had been consulting engineer to the United States Navy in its Iceland installations and to the Army in its Iranian pipeline project.

His most recent assignment was as field superintendent for the M. W. Kellogg Company in Aruba, West Indies, where he had charge of facilities to handle 100-octane gasoline. He was president of the Tuscarora Oil Company, Ltd., from 1925 to 1930, and had also been affiliated with the Oklahoma Pipe Line Company, the Ajax Pipe Line Company, the Iraq Petroleum Company, Ltd., and the Near East Development Corporation.

Prof. Otis F. Curtis

Prof. Otis F. Curtis, plant physiologist and professor of botany at Cornell University, died July 4 while on vacation Chatham, Mass. He was sixty-one ye old.

Prof. Curtis was appointed professor botany at Cornell and plant patholog at the Cornell Experiment Station in 19 He was a former president of the Ame can Society of Plant Physiologists and member of the American Association the Advancement of Science, the Bota cal Society of America, the American sociation of Naturalists and the Americ Society for Horticultural Science.

Edward W. Freundt

Edward W. Freundt, manager of t chemical division of Armour & Co., C cago, died July 3 of a heart attack Seattle, Wash. He was forty-seven yea old.

Mr. Freundt, who had been with A mour & Co. for twenty-two years, w made sales manager of the chemical di sion in 1938 and held that position un he was named manager shortly before death. He was a former president of t Mid-West Fats and Oils Club and w prominent in the affairs of the Associati of Soap and Glycerine Producers and t National Paint, Varnish and Lacquer A sociation.

Clifford M. Anthony, formerly a buy for eight years with the Barrett Divisi of Allied Chemical & Dye Company Elizabeth, N. J., died July 6 in Overlo hospital, Summit. He was fifty years o

Clarence Braden, former vice-presid of the Federal Chemical Company, Lou ville, Ky., died July 1 in Jewish hospit in that city. He was sixty-seven yea old. He had resigned from the chemic company in 1924 after twenty-four yea service.

James L. Covey, retired clerk for t American Smelting & Refining Compan New York, died July 5 in Mount Verno hospital, Mount Vernon, N. Y. He w sixty-six years old.

Howard R. Cruse, a director and vic president of the Joseph Dixon Crucib Company, Jersey City, N. J., died recent at his home in South Orange, N. J. H was seventy years old.

John Hart, traffic manager and direct of the former Grasselli Chemical Co pany, now a division of E. I. du Pont Nemours & Co., died recently at his hom in Cleveland, Ohio.

James E. Jackson, advertising manag of John Lucas & Co., paint manufacture Gibbsboro, N. J., died July 2 in Coope hospital, Camden, N. J., of injuries su fered in an automobile accident. He w sixty-two years old.

George R. Mattingly, overseas repr sentative of the Standard Oil Compan of New Jersey, died July 4 in New Yor hospital, New York. He was forty-nin years old. Mr. Mattingly had joined th company in 1922 and had served in Yug slavia, France, England, Romania, Swit erland and Algiers. During the recen war he served for two years with th Board of Economic Warfare.

Thomas E. Mobley, retired director i charge of producing for the Standard-Va uum Oil Company, died recently in Par ersburg, W. Va. He was seventy-one year old. Mr. Mobley had retired from th company in 1942 after having been i charge of producing since 1933.

Angelo Pozzi, former employee of th Solvay Process Company who invente two devices to facilitate the manufactur of soda ash, died July 5 at his home i Solvay, N. Y. He was seventy-nine year old. Mr. Pozzi had retired from the com pany in 1907 after twenty years service

Gustav J. Schultz, an accountant for th Heyden Chemical Corporation, New York died July 6 at his home in East Orange N. J. He was sixty years old. Before joining the Heyden organization Mr Schultz was assistant controller of Merc & Co., manufacturing chemist, Rahway N. J.

Capt. Victor H. Wilhelm, oil enginee and California inspector of naval petro leum reserves since 1944, died July 6 i Long Beach Naval hospital, Long Beach Calif. He was sixty-three years old.

Trade Briefs

Sinclair Oil Corporation has appointe Roger B. Jones director of industrial re lations.

Sunland Refining Corporation, Fresno Calif., has established a geological and ex ploration division, with Dan Kralls as chie geologist.

C. T. Helm, marketing advisor of Stand ard Oil Company (New Jersey) for Latin America, has been elected a director o International Petroleum Company, Ltd.

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Trade Briefs

California Standard Oil Company has appointed Charles G. Wood assistant manager of its marketing department, to succeed Roy S. Milligan, who retired on July 1.

Wesley W. Layne was recently appointed comptroller of California Spray-Chemical Corporation. He was formerly connected with the comptroller's office of Standard Oil Company of California.

George B. Black has been appointed to succeed Robert G. Guthrie as fire protection engineer of the market division of Sun Oil Company. Mr. Guthrie has retired after nineteen years in the position.

Dr. Alexander Schwarcman, vice-president and director of research of Spencer Kellogg & Sons, Inc., was guest speaker at a recent meeting of the Western New York group of the Graduate School of Banking in the Park Lane Restaurant, Buffalo.

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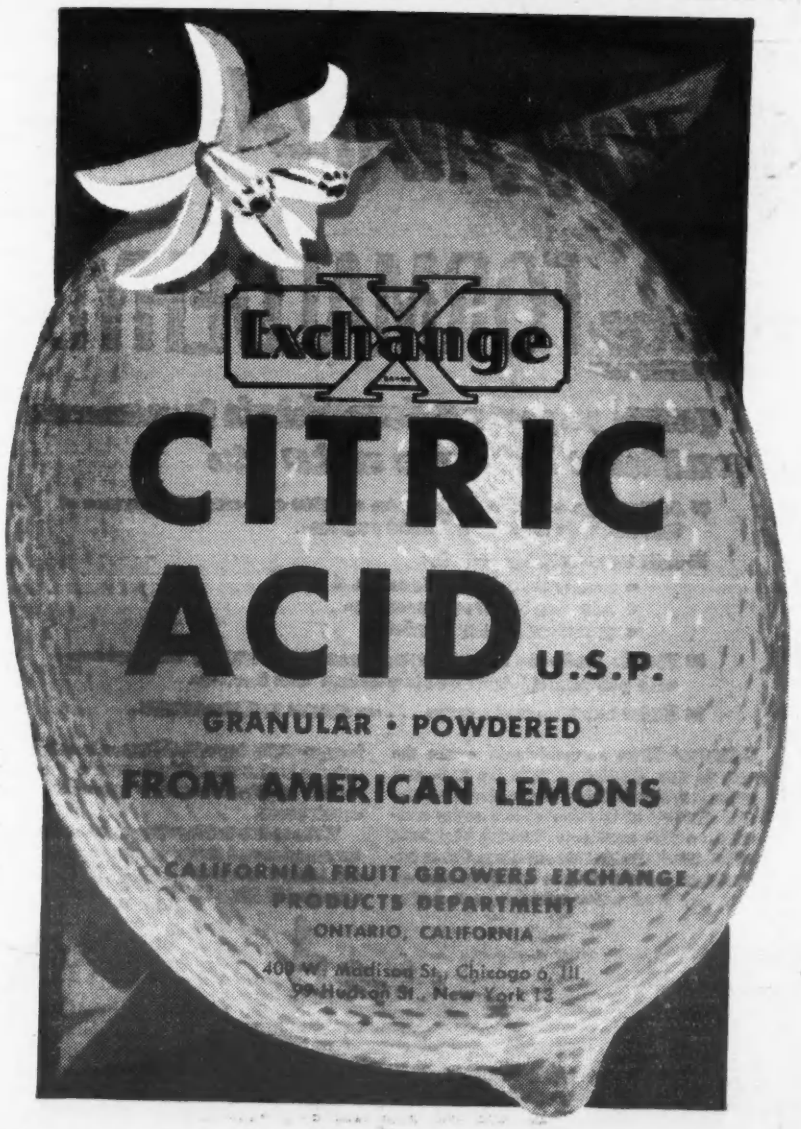

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